

nume	gradul didactic	domeniul	1. Activitatea didactică și profesională										2. Activitatea de cercetare		3. Recunoașterea impactului activității		Total	
			Cărți în edituri internaționale recunoscute Web of Science în calitate de autor	Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor/ Review-uri în reviste cotate ISI	Cărți în edituri internaționale recunoscute Web of Science în calitate de editor	Cărți, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale ca autor, note interne, prezentări susținute pentru aprobarea analizelor de date în cadrul	Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor	Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI	Brevete de invenție internaționale acordate	Brevete de invenție naționale acordate	Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură naționale acordate	Director/ responsabil pentru proiecte de cercetare câștigate în valoare de V euro prin competiție națională sau internațională	Total criteriul A	Articole științifice originale în extenso ca autor	Articole științifice originale în extenso ca prim autor sau autor corespondent,	Citări în reviste științifice cu factor de impact care se regăsesc în InCites Journal Citation Reports sau în cărți în edituri recunoscute Web of Science		Indicele Hirsch
			$A_1 = \sum_{i=1}^{10} 4 / n_i^{0.5}$	$A_2 = \sum_{i=1}^{10} 1 / n_i^{0.5}$	$A_3 = \sum_{i=1}^{10} 0.5 / n_i^{0.5}$	$A_4 = \sum_{i=1}^{10} 0.5 / n_i^{0.5}$	$A_5 = \sum_{i=1}^{10} 0.2 / n_i^{0.5}$	$A_6 = \sum_{i=1}^{10} 0.2 / n_i^{0.5}$	$A_7 = \sum_{i=1}^{10} 3 / n_i^{0.5}$	$A_8 = \sum_{i=1}^{10} 0.5 / n_i^{0.5}$	$A_9 = \sum_{i=1}^{10} 0.5$	$A_{10} = \sum_{i=1}^{10} V_i / 100.000$	$A = \sum_{i=1}^{10} A_i$	$I = \sum_{i=1}^{10} AIS_i / n_i^{0.5}$	$P = \sum_{i=1}^{10} AIS_i$	$C = \sum_{i=1}^{10} c_i / n_i^{0.5}$	h	
Fiz. Abil. Radu Fechete	Prof. Dr.	FIZICĂ	0.00	0.00	0.00	1.60	0.00	1.32	2.66	0.00	0.00	3.51	9.09	11.53	16.09	149.99	15	33.40373

Nota: se preiau valorile din fișele de calcul A, I-P și C

Criterii minimale	prof/CS I	conf/CS II
A	2	1
I	4	2
P	4	2
C	40	20
h	10	5
$T = A + P/2 + I/2 + C/20 + h/5$	12	5

Activitatea didactica si profesionala			
1. Cărți în edituri internaționale recunoscute Web of Science în calitate de autor			
Date identificare	Numar autori	Numar efectiv	A1
2. Capitole de cărți în edituri internaționale recunoscute Web of Science în calitate de autor/ Review-uri în reviste cotate ISI			
Date identificare	Numar autori	Numar efectiv	A2
3. Cărți în edituri internaționale recunoscute Web of Science în calitate de editor			
Date identificare	Numar autori	Numar efectiv	A3
4. Cărți, manuale, îndrumare de laborator în edituri naționale sau alte edituri internaționale ca autor, note interne, prezentări susținute pentru aprobarea analizelor de date în cadrul colaborărilor mari			
Date identificare	Numar autori	Numar efectiv	A4
R. Fechete, Nuclear Magnetic Resonance of Elastomers and Biological Tissues, Editura Risoprint, 242 pg, ISBN 978-973-751-775-3 (2008).	1	1	0.50
Radu Fechete, Elemente de fizica pentru ingineri, Editura UT Press, 227 pg., ISBN 978-973-662-375-2 (2008).	1	1	0.50
Radu Fechete, Dan E. Demco, Dumitrita C. Moldovan, Ramona I. Chelcea, Eugen Culea, Rezonanta Magnetica Nucleara: Metode clasice si Moderne, Editura Risoprint, Cluj-Napoca, ISBN 978-973-53-0441-6, pg. 260 (2010).	6	5.5	0.09
R. Fechete, D. Moldovan, R. Chelcea, Applications of modern NMR techniques to nanocomposite materials and biomaterials, ISBN: 978-973-662-906-8, Editura U.T.PRESS Cluj-Napoca (2013).	3	3	0.17
R. Fechete, R. Chelcea, D. Moldovan, S. Nicoara, I. Coroiu, C. Badea, E. Culea, I. Cosma, N. Serban, Fizica: Indrumator de laborator, UT. PRESS, Cluj-Napoca, ISBN 978-973-662-952-5, (2014).	9	7	0.07
Radu Fechete, Dumitrita C. Moldovan, Ramona I. Chelcea, Lidia Pop, Maria Bosca, Fizica. Îndrumator de lucrari virtuale de laborator, U.T. PRESS, Cluj - Napoca, ISBN 978-606-737-519-0, pg. 238, (2021).	5	5	0.10
Simona Nicoara, Codruta Badea, Radu Fechete, Problems and Applications of PHYSICS for Students of Engineering, U.T. PRESS, Cluj - Napoca, ISBN 978-606-737-619-7, pg. 154, (2022)	3	3	0.17
			1.60
5. Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor			
Date identificare	Numar autori	Numar efectiv	A5
6. Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI			
Date identificare	Numar autori	Numar efectiv	A6
E. Jumate, D. Moldovan, R. Fechete, D. Manea, NMR Relaxometry Study Of Plaster Mortar With Polymer Additives, AIP Conference Proceedings, AIP Conf. Proc. 1565, 112-116 (2013).	4	4	0.13

C. Cota, N. Cioica, C. Filip, R. Fechete, M. Todica, E. M. Nagy, O. Cozar, Spectroscopic investigation of the constituent components effect on the biodegradable package characteristics, AIP Conf. Proc. 1700, 040002-1–040002-5, (2015).	7	6	0.08
E. Jumate, D. L. Manea, C. Aciu, L. Molnar, R. Fechete, Innovative Materials Made by Adding Cellulose to Cement Mortars, Procedia Technology 19, 291 – 298 (2015).	5	5	0.10
D. M. Andres, D. L. Manea, R. Fechete, E. Jumate, Green Plastering Mortars Based on Clay and Wheat Straw, Procedia Technology 22, 327-334 (2016).	4	4	0.13
D. M. Andres, D. L. Manea, R. Fechete, E. Jumate, Clay Mortar Performance Improvement by Modifying the Physical Characteristics of Wheat Straw, Procedia Technology 22, 335-342 (2016).	4	4	0.13
E. Jumate, C. Aciu, DL Manea, D. Moldovan, R. Chelcea, R. Fechete, Plastering mortar with antibacterial and antifungal properties studied by 1 H NMR relaxometry, AIP Conference Proceedings 1917, 040007 (2017).	6	5.5	0.09
E. Jumate, D. L. Manea, D. Moldovan, R. Fechete, The Effects of Hydrophobic Redispersible Powder Polymer in Portland Cement Based Mortars, Procedia Engineering, 181, pp. 316-323 (2017).	4	4	0.13
O. Cozar, N. Cioica, C. Cota, E.M. Nagy, R. Fechete, Plasticizers effect on native biodegradable package materials, AIP Conference Proceedings 1796 (1), 040008 (2017).	5	5	0.10
Ramona Crainic, Radu Fechete, Advanced monitoring of a laboratory scale modular green roof model, AIP Conference Proceedings 2206 (1), 030004, (2020).	2	2	0.25
L. R. Dragan, E. Jumate, C. Aciu, D. L. Manea, R. Fechete, Advanced characterization of plastering mortars with glass waste additives, AIP Conference Proceedings 2206 (1), 030005, (2020).	5	5	0.10
A. O. Pinteau, D. L. Manea, C. Aciu, E. Jumate, R. Fechete, Plastering mortar with organic natural polymers studied by 1H NMR relaxometry, AIP Conference Proceedings 2206 (1), 050004, (2020).	5	5	0.10
			1.32
7. Brevete de invenție internațională acordate			
Date identificare	Numar autori	Numar efectiv	A7
Bluemich, Bernhard; Bruder, Michael; Anferov, Vladimir; Anferova, Sophia; Fechete, Radu; Klein, Martin; Krause, Karl-Heinz; Rabkin, Michael; Stangenberg, Juergen, NMR probe used to analyze materials, PCT Int. Appl., (2003), (Germany), 37 pp. CODEN: PIXXD2 WO 2003087861 A1 20031023.	9	7	0.43
Radu Fechete, Martin Blanz, Holger Thern, Thomas Kruspe, Peter Rottergatter, Diminution d'artefacts dus au mouvement en RMN, Canadian Intellectual Properties CA 2 565 587 Date of publication 17 Nov. (2005).	5	5	0.60
Peter Rottergatter, Holger Thern, Radu Fechete, Martin Blanz, Thomas, Kruspe, Reduction of motion artifacts in NMR, United State Patent, US 2005/0248342 A1, (2005).	5	5	0.60

Blumich Bernhard, Bruder Michael, Klein Martin, Krause Karl-Heinz, Rabkin Michael, Stangenberg Juergen, Anferov Vladimir, Anferova Sophia, Fechete Radu, NMR probe for material analysis, United States Patent, 7,095,230, August 22, (2006).	9	7	0.43
Martin Blanz, Thomas, Kruspe, Peter Rottergatter, Holger Thern, Radu Fechete, Reduction of motion artifacts in NMR, UK Patent Application GB 2 440 280 A, Date of publication 23.01.(2008)	5	5	0.60
			2.66
8. Brevete de invenție naționale acordate			
Date identificare	Numar autori	Numar efectiv	A8
9. Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură (proiectele de cercetare se exclud)			
Date identificare			A9
Program de studii...			
10. Director/ responsabil pentru proiecte de cercetare in valoare euro câștigate prin competiție națională sau internațională			
Date identificare	Suma totala in Euro		A10
CNCSIS AT 176/2005 finanțat de UEFISCDI	9443		0.09
PN II Idei 307/2011 finanțat de UEFISCDI	341919		3.42
			3.51
TOTAL			9.09

1. la fiecare item se vor adauga atatea linii cate sunt necesare
2. In categoriile capitole de cărți la Edituri internaționale recunoscute (2) și capitole de cărți în edituri naționale recunoscute (5) nu se includ capitolele publicate in volumele de proceedingsuri de la conferințe. Acestea se vor include in categoria (6) doar daca sunt publicate in volume indexate ISI.

Activitatea de cercetare

Titlu articol	Autori	Jurnal	An	Vol	Pag	prim autor/ corespondent	numar autori	Numar efectiv	AIS	I	P
A. Lupulescu, R. Fecete, D.E. Demco and O. Cozar, Single-Quantum NMR Spinning-Side-Band Patterns for Spin-3/2 System, Acta Physica Polonica A, 92(6), (1997)						0	2	2.00	0.131	0.07	0.00
R. Ordean, R. Fecete, C. Filip, O. Pana, L.V. Giurgiu, C. Kessler, M. Mehring Charge Delocalisation in Quasi-One-Dimensional Molecular Conductor KCP as seen by ESR, Roum. J. Phys. 43, 481-487 (1998).						0	3	3.00		0.00	0.00
K. Hailu, R. Fecete, D. E. Demco, and B. Blümich, Anisotropy of Transverse 1H Magnetisation Relaxation in Strained Elastomers by NMR-MOUSE®, NATO-ARW on Magnetic Resonance in Colloid and Interface Science, eds. J. Fraissard and O. LAPina., St. Petersburg, Russia, 525-530 (2001).						0	4	4.00		0.00	0.00
R. Fecete, D. E. Demco, and B. Blümich, Segmental Anisotropy in Strained Elastomers by 1H NMR of Multipolar Spin States, Macromolecules 35, 6083-6085 (2002).						1	3	3.00	1.387	0.46	1.39
K. Hailu, R. Fecete, D. E. Demco, and B. Blümich, Segmental Anisotropy Induced in Strained Elastomers Detected with a Portable NMR Scanner, Solid State Nucl. Magn. Reson. 22, 327-343 (2002).						0	4	4.00	0.675	0.17	0.00
B. Blümich, V. Anferov, S. Anferova, M. Klein, R. Fecete, M. Adams, F. Casanova, A Simple NMR-MOUSE® with a Bar Magnet, Magn. Res. Eng., 15(4), 255-261 (2002).						0	7	6.00		0.00	0.00
R. Fecete, D. E. Demco, and B. Blümich, Chain Orientation and Slow Dynamics in Elastomers by Mixed Magic-Hahn Echo Decays, J. Chem. Phys., 118(5), 2411-2421 (2003).						1	3	3.00	1.061	0.35	1.06
R. Fecete, D. E. Demco, B. Blümich, U. Eliav, and G. Navon, Anisotropy of Collagen Fiber Orientation in Sheep Tendon by 1H Double-Quantum-Filtered NMR Signals, J. Magn. Reson., 161 (3), (2003).						1	5	5.00	0.974	0.19	0.97

B. Blümich, V. Anferov, S. Anferova, M. Klein, R. Fechete, A NMR-MOUSEŇ for Analysis of Thin Objects, <i>Macromolecular Materials & Engineering</i> , 288(4), 312-317 (2003)	0	5	5.00	0.572	0.11	0.00
D.E. Demco, R. Fechete, and B. Blümich, Residual van Vleck moments in elastomers by accordion magic sandwich, <i>Chem. Phys. Lett.</i> , 375, 406-412 (2003).	0	3	3.00	0.863	0.29	0.00
R. Fechete, Chain orientation and slow dynamics of elastomers and ordered tissues by advanced NMR, <i>Chemisch Weekblad, The Netherlands</i> , 99, 13 (2003).	1	1	1.00	0	0.00	0.00
R. Fechete, D.E. Demco, and B. Blümich, Self-diffusion Anisotropy of Small Penetrants in Compressed Elastomers, <i>Macromolecules</i> , 36, 7155-7157 (2003).	1	1	1.00	1.387	1.39	1.39
M. Todica, R. Fechete, and B. Blümich, Selective NMR excitation in strongly inhomogeneous magnetic fields, <i>J. Magn. Reson.</i> , 164 220-227 (2003)	0	3	3.00	0.974	0.32	0.00
M. Klein, R. Fechete, D.E. Demco, and B. Blümich, Self-Diffusion Measurements by Constant-Relaxations Method in Strongly Inhomogeneous Magnetic Fields, <i>J. Magn. Reson.</i> , 164 310-320 (2003).	0	4	4.00	0.974	0.24	0.00
R. Fechete, D.E. Demco, and B. Blümich, Parameter maps of ¹ H residual dipolar couplings in tendon under mechanical load, <i>J. Magn. Reson.</i> , 165 9-17 (2003).	1	3	3.00	0.974	0.32	0.97
R. Fechete, D.E. Demco, and B. Blümich, Order parameters of orientation distributions of collagen fibers in tendon by Multipolar spin states filtered NMR signals, <i>NMR in Biomedicine</i> , 16, 8, 479-483 (2003).	1	3	3.00	2.012	0.67	2.01

R. Fechete, D.E. Demco, and B. Blümich, Enhanced sensitivity to residual dipolar couplings by high-order multiple-quantum NMR, <i>J. Magn. Reson.</i> , 169, 19-26 (2004).	1	3	3.00	0.974	0.32	0.97
B. Blümich, D.E. Demco, R. Fechete, Auslegung mobiler NMR-Sonden zur zerstörungsfreien Prüfung, <i>Computational Chemistry: Berichte aus der RWTH-Aachen</i> , 2, 28-31 (2004).	0	3	3.00		0.00	0.00
S. Anferova, V. Anferov, M. Adams, R. Fechete, G. Schröder and B. Blümich, A temperature control unit for operation with the NMR-MOUSE®: application to thermo-oxidative aging of elastomers, <i>App. Magn. Reson.</i> , 27, 3-4, 1-10 (2005).	0	6	5.50	0.281	0.05	0.00
D.E. Demco, G. Rata, R. Fechete, and B. Blümich, A new tool to investigate segmental anisotropy in strained elastomers by the anisotropy of self-diffusion of small penetrant molecules, <i>Macromolecules</i> , 38, 5647-5653 (2005).	0	4	4.00	1.387	0.35	0.00
R. Fechete, D.E. Demco, B. Blümich, U. Eliav, G. Navon, Self-diffusion anisotropy of water in sheep Achilles tendon, <i>NMR in Biomedicine</i> , 18, 577-586 (2005).	1	5	5.00	2.012	0.40	2.01
M. Todica, R. Fechete, and B. Blümich, Selective saturations in strongly inhomogeneous magnetic fields, <i>App. Magn. Reson.</i> , 29, 655-667 (2005).	0	3	3.00	0.281	0.09	0.00
M. Butnaru, R. Marcean, O. Cozar, I. Bratu and R. Fechete, The behaviour of some butadiene elastomers submitted to the degrading action of climatic factors studied by photoacoustic technique, <i>Studia Babes-Bolyai, Physica, L 4b</i> , 633-636 (2005).	0	5	5.00	0	0.00	0.00
M. Butnaru, R. Marcean, O. Cozar, I. Bratu and R. Fechete, The action of marine climate on some polymers, <i>Studia Babes-Bolyai, Physica, L 4b</i> , 637-640 (2005).	0	5	5.00	0	0.00	0.00

M. Butnaru, R. Marcean, O. Cozar, I. Bratu and R. Fechete, Application of NMR techniques in studying the dynamics of some polymers, Studia Babes-Bolyai, Physica, L 4b, 641-645 (2005).	0	5	5.00	0	0.00	0.00
M. Butnaru, R. Marcean, O. Cozar, I. Bratu and R. Fechete, Application of an IR techniques in studying the structure of some polymers, Studia Babes-Bolyai, Physica, L 3, 264-270 (2005).	0	5	5.00	0	0.00	0.00
Marko Bertmer, Dan E. Demco, Mingfei Wang, Claudiu Melian, Ramona I. Marcean-Chelcea, Radu Fechete, Maria Baias, Bernhard Blümich, Segmental dynamic heterogeneity of short-chaingrafted-poly(dimethylsiloxane) by 1H spin-diffusion NMR, Chem. Phys. Letter, 431, 404-409 (2006).	0	8	6.50	0.863	0.13	0.00
E. Culea, L. Pop, R. Fechete, P. Pascuta, S. Rada, M. Culea, M. Bosca, R. Chelcea, Spectroscopic and Magnetic Properties of xGd2O3(1-x)[0.15 Bi2O3-0.85 TeO2] Glasses, Annals of the West University of Timisoara. Physics Series 49, 55 (2006).	0	8	6.50	0	0.00	0.00
L. Pop, E. Culea, M. Culea, S. Rada, P. Pascuta, R. Fechete, M. Bosca, R. Chelcea, Structural Properties of B2O3-PbO Glasses Doped with Rare Earth Ions, Annals of the West University of Timisoara. Physics Series, 48, 204 (2006).	0	8	6.50	0	0.00	0.00
R. Marcean-Chelcea, R. Fechete, E. Culea, D.E. Demco, B. Blümich, Segmental Order and Dynamics of Polymer Networks Using Dipolar Correlation Effect Measured in Low Field NMR, American Institute of Physics CP899, 561 (2007).	0	5	5.00	0	0.00	0.00
R. Marcean-Chelcea, R. Fechete, E. Culea, D.E. Demco, B. Blümich, Microscopic and Macroscopic Properties Correlations of Polymer Networks Measured in Low Field NMR, American Institute of Physics CP899, 567 (2007).	0	5	5.00	0	0.00	0.00

R. I. Chelcea, R. Fechete, E. Culea, D. E. Demco and B. Blümich, Distributions of transverse relaxation times for soft-solids measured in strongly inhomogeneous magnetic fields, <i>J. Magn. Reson.</i> , 196, 178-190 (2009).	0	5	5.00	0.861	0.17	0.00
Maria Baias, Dan E. Demco, Crisan Popescu, Radu Fechete, Claudiu Melian, Bernhard Blümich, and Martin Möller, Thermal Denaturation of Hydrated Wool Keratin by 1H Solid-State NMR, <i>J. Phys. Chem. B</i> , 113, 2184-2192, (2009).	0	7	6.00	1.399	0.23	0.00
D. Moldovan, R. Fechete, D. E. Demco, E. Culea and B. Blümich, Monte - Carlo simulations of the two-dimensional NMR T2-T2 exchange of fluids in porous media, <i>Diffusion Fundamentals</i> , 10 20.1 - 20.3 (2009).	0	5	5.00	0	0.00	0.00
R. Fechete, D. Moldovan, D. E. Demco and B. Blümich, Laplace inversions applied to multi-component T2-T2 exchange experiments, <i>Diffusion Fundamentals</i> , 10 14.1 - 14.3 (2009).	1	4	4.00	0	0.00	0.00
I. Cosma , E. Culea, R. Fechete and S. Nicoara, Statistics of interatomic Ni-Ni bonds in Ni-based ternary solid solutions with non magnetic elements and their magnetic behavior, <i>Modern Phys. Lett. B</i> , Vol. 23, No. 9 1199-1206 (2009).	0	4	4.00	0.187	0.05	0.00
Claudiu Melian, Dan E. Demco, Monica Istrate, Andreea Balaceanu, Dumitrita Moldovan, Radu Fechete, Crisan Popescu, Bernhard Blümich, and Martin Möller, Morphology and side chain dynamics in hydrated hard α -keratin fibres by 1H solid-state NMR <i>Chem. Phys. Lett.</i> 480 300–304 (2009).	0	9	7.00	0.794	0.11	0.00
D. Moldovan, R. Fechete, D. E. Demco, E. Culea, B. Blümich, V. Herrmann, M. Heinz, Heterogeneity of Nanofilled EPDM Elastomers Investigated by Inverse Laplace Transform 1H NMR Relaxometry and Rheometry, <i>Macromol. Chem. Phys.</i> , 211, 1579-1594 (2010).	0	7	6.00	0.697	0.12	0.00
D. Moldovan, R. Fechete, D. E. Demco, E. Culea, B. Blümich, V. Herrmann, M. Heinz, The heterogeneity of segmental dynamics of filled EPDM by 1H transverse relaxation NMR, <i>J. Magn. Reson.</i> , 208 156-162 (2011).	0	7	6.00	0.797	0.13	0.00

C. Filipoi, D. E. Demco, X. Zhu, R. Vinokur, O. Conradi, R. Fechete, M. Möller, Channel orientation anisotropy in perfluorosulfonic acid/SiO ₂ composite proton exchange membranes: Water self-diffusion study using NMR, Chem. Phys. Lett., 513, 251–255 (2011).	0	7	6.00	0.696	0.12	0.00
L. Utiu, , D. E. Demco, R. Fechete, M. Möller, C. Popescu, Morphology and molecular dynamics of hard α -keratin based micro-tubes by 1H and 13C solid-state NMR, Chem. Phys. Lett., 517 (1-3), 86-91, (2011).	0	5	5.00	0.696	0.14	0.00
D. Moldovan, M. Pop, R. Fechete, A. Baudouine, M. Todica, Investigation of the effects of degradation of high density polyethylene by 13C NMR spectroscopy and 1H relaxometry, Studia Univ. Babeş-Bolyai Chemia (3) , 103-110, (2011).	0	5	5.00	0.02	0.00	0.00
M. Pop, S. Traian, L. Daraban, R. Fechete, 13C NMR study of gamma irradiated polystyrene, Studia Univ. Babeş-Bolyai, Chemia (3), 129-134, (2011).	0	4	4.00	0.02	0.01	0.00
C. I. Horvat, X. Zhu, D. Türp, R. A. Vinokur, D. E. Demco, R. Fechete, O. Conradi, A. Graichen, D. Anokhin, D. A. Ivanov, M. Möller, Perfluorosulfonic acid ionomer – silica composite membranes prepared using hyperbranched polyethoxysiloxane for polymer electrolyte membrane fuel cells, Int. J. Hydr. Energy, 37 (19) 14454–14462 (2012).	0	11	8.00	0.707	0.09	0.00
C. Filipoi, D. E. Demco, X. Zhu, R. Vinokur, O. Conradi, R. Fechete, M. Möller, Water self-diffusion anisotropy and electrical conductivity of perfluorosulfonic acid/SiO ₂ composite proton exchange membranes, Chem. Phys. Lett., 554 143–149 (2012).	0	7	6.00	0.686	0.11	0.00
N. Cioica, R. Fechete, O. Cozar, C. Cota, Investigate the effect of some plasticizers on the macrostructure of corn starch used to obtain biodegradable packaging, INMATEH - Agricultural Engineering, Volume 36, Issue 1, 2012, Pages 69-70, (2012)	0	4	4.00	0.000	0.00	0.00
D. Demco; A.-M. Oros-Peusquens, L. Utiu, R. Fechete, B. Blümich, N. J. Shah, Molecular dynamics parameter maps by 1H Hahn echo and mixed-echo phase-encoding MRI, J. Magn. Reson., 227, 1–8 (2013).	0	6	5.50	0.774	0.14	0.00

N. Cioica, R. Fechete, C. Cota, E.M. Nagy, L. David, O. Cozar, NMR relaxation investigation of the native corn starch structure with plasticizers, J. Molec. Struct., 1044, 128–133 (2013).	0	6	5.50	0.000	0.00	0.00
Cioica, N; Fechete, R; Cota, C; Nagy, EM; Cozar, O; Pop, C. V., STRUCTURAL CHANGES OF THE CORN STARCH FROM ROMANIA USED TO MAKE BIODEGRADABLE PACKAGING ACTUAL TASKS ON AGRICULTURAL ENGINEERING, 41, 398-404, (2013)	0	6	5.50	0.292	0.05	0.00
D. Demco; Carmen Filipoi, Xiaomin Zhu, Radu Fechete, Martin Möller, Morphological Heterogeneity by Diffusional Kurtosis NMR Spectroscopy in Perfluorosulfonic Acid/SiO ₂ Composite Proton-Exchange Membranes, Macromol. Chem. Phys., 214, 1345-1355 (2013)	0	5	5.00	0.608	0.12	0.00
E. Jumate, D. Moldovan, R. Fechete, D. Manea, NMR Relaxometry Study Of Plaster Mortar With Polymer Additives, AIP Conference Proceedings, AIP Conf. Proc. 1565, 112-116 (2013).	0	4	4.00	0.000	0.00	0.00
R. Fechete, D. E. Demco, X. Zhu, W. Tillmann, R. Vinokur, M. Möller, Water states and dynamics in perfluorinated ionomer proton exchange membranes by 1H one- and two-dimensional NMR spectroscopy, relaxometry, and diffusometry, Chem. Phys. Lett. 597 6-15 (2014).	1	6	5.50	0.565	0.10	0.57
Nicolae Cioica, Radu Fechete, Ramona Chelcea, Constantin Cota, Mihai Todica, Cornel V. Pop, Onuc Cozar, Water Absorption And Degradation Of Packages Based On Native Corn Starch With Plasticizers, STUDIA UBB CHEMIA, LX, 1, 45-55 (2015).	0	7	6.00	0.017	0.00	0.00
Ramona I. Chelcea, Remus S. Sipos, Radu Fechete, Dumitrita Moldovan, Ioana Sus, Zoltan Pávai and Dan E. Decmo, One-Dimensional Laplace Spectroscopy Used For The Assessment Of Pore-Size Distribution On The Ovariectomized Rats Femur, STUDIA UBB CHEMIA, LX, 1, 57-70 (2015).	1	7	6.00	0.017	0.00	0.02
E. Jumate, D. L. Manea, C. Aciu, L. Molnar, R. Fechete, Innovative Materials Made by Adding Cellulose to Cement Mortars, Procedia Technology 19, 291 – 298 (2015).	0	5	5.00	0.000	0.00	0.00

R. S. Sipos, R. Fechete, D. Moldovan, I. Sus, S. Szasz, Z. Pávai, Assessment of femoral bone osteoporosis in rats treated with simvastatin or fenofibrate, <i>Open Life Sci</i> 10, 379-387 (2015).	1	6	5.50	0.099	0.02	0.10
R. S. Sipos, R. Fechete, R. I. Chelcea, D. Moldovan, Z. Pap, Z. Pávai, D. E. Demco, Ovariectomized rats' femur treated with fibrates and statins. Assessment of pore-size distribution by 1H-NMR relaxometry, <i>Rom J Morphol Embryol</i> 56 (2 Suppl), 743-752 (2015).	1	7	6.00	0.149	0.02	0.15
N. Cioica, R. Fechete, C. Filip, I. B. Cozar, C. Cota, E. M. Nagy, NMR and SEM Investigation of Extruded Native Corn Starch with Plasticizers, <i>Rom. J. of Phys.</i> 60 (3-4), 512-520 (2015).	0	6	5.50	0.173	0.03	0.00
C. Cota, N. Cioica, C. Filip, R. Fechete, M. Todica, E. M. Nagy, O. Cozar, Spectroscopic investigation of the constituent components effect on the biodegradable package characteristics, <i>AIP Conf. Proc.</i> 1700, 040002-1-040002-5, (2015).	0	7	6.00	0.000	0.00	0.00
E. Jumate, D. Moldovan, D.L. Manea, D.E. Demco, R. Fechete, The Effects of Cellulose Ethers and Limestone Fillers in Portland Cement-Based Mortars by 1H NMR relaxometry, <i>App. Magn. Reson.</i> 47 (12), 1353-1373 (2016).	1	5	5.00	0.250	0.05	0.25
R.S. Sipos, R. Fechete, D. Moldovan, I. Sus, Z. Pávai, D.E. Demco, Ovariectomy-Induced Osteoporosis Evaluated by 1H One-and Two-Dimensional NMR Transverse Relaxometry, <i>Applied Magnetic Resonance</i> 47 (12), 1419-1437 (2016).	1	6	5.50	0.25	0.05	0.25
S. Singh, D. E. Demco, K. Rahimi, R. Fechete, J. C. Rodriguez-Cabello, M. Möller, Coacervation of Elastin-Like Recombinamer Microgels, <i>Macromolecular rapid communications</i> 37 (2), 181-186 (2016).	0	6	5.50	1.090	0.20	0.00
D. M. Andres, D. L. Manea, R. Fechete, E. Jumate, Clay Mortar Performance Improvement by Modifying the Physical Characteristics of Wheat Straw, <i>Procedia Technology</i> 22, 335-342 (2016).	0	4	4.00	0.000	0.00	0.00

D. M. Andres, D. L. Manea, R. Fechete, E. Jumate, Green Plastering Mortars Based on Clay and Wheat Straw, <i>Procedia Technology</i> 22, 327-334 (2016).	0	4	4.00	0.000	0.00	0.00
S. Singh, D. E. Demco, K. Rahimi, R. Fechete, J. C. Rodriguez-Cabello, M. Möller, Aggregation behaviour of biohybrid microgels from elastin-like recombinamers, <i>SoftMatter</i> , 12 , 6240--6252 (2016).	0	6	5.50	1.177	0.21	0.00
Ph. Kensbock, D. E. Demco, S. Singh, K. Rahimi, R. Fechete, A. Walther, A. M. Schmidt, M. Moeller, Peptizing Mechanism at the Molecular Level of Laponite Nanoclay Gels, <i>Langmuir</i> , 33 (1), pp 66–74 (2017).	0	8	6.50	0.964	0.15	0.00
O. Cozar, N. Cioica, C. Cota, E.M. Nagy, R. Fechete, Plasticizers effect on native biodegradable package materials, <i>AIP Conference Proceedings</i> 1796 (1), 040008 (2017).	0	5	5.00	0.000	0.00	0.00
S. Schweizerhof, D. E. Demco, A. Mourran, H. Keul, R. Fechete, M. Möller, Temperature-Induced Phase Transition Characterization of Responsive Polymer Brushes Grafted onto Nanoparticles, <i>Macromol. Chem. Phys.</i> , 218(6), 1600495 (2017).	0	6	5.50	0.514	0.09	0.00
R. I. Chelcea, D. Moldovan, D. E. Demco, E. Culea, R. Fechete, In vitro degradation and phase composition of cosmetic emulsions, <i>Studia Universitatis Babes-Bolyai Chemia</i> , 62(1), pp. 73-88 (2017).	1	5	5.00	0.019	0.00	0.02
E. Jumate, D. L. Manea, D. Moldovan, R. Fechete, The Effects of Hydrophobic Redispersible Powder Polymer in Portland Cement Based Mortars, <i>Procedia Engineering</i> , 181, pp. 316-323 (2017)	0	4	4.00	0.000	0.00	0.00
S. Schweizerhof, D. E. Demco, A. Mourran, H. Keul, R. Fechete, M. Möller, Thermodynamic Parameters of Temperature-Induced Phase Transition for Brushes onto Nanoparticles: Hydrophilic versus Hydrophobic End-Groups Functionalization, <i>Macromolecular Rapid Communications</i> , 38, 1700362 (2017).	0	6	5.50	1.003	0.18	0.00

Onuc COZAR, Nicolae CIOICA, Elena Mihaela NAGY, Constantin COTA, Radu FECHETE, Claudiu FILIP, STRUCTURAL INVESTIGATION OF SOME NATIVE BIODEGRADABLE PACKAGING MATERIALS, Studia Universitatis Babes-Bolyai, Ephemerides, 62 19-28 (2017).	0	6	5.50	0.019	0.00	0.00
Andrei Mustea, Daniela L Manea, Elena Jumate, Yvette A Orbán, Radu Fechete, Plaster mortars with polymer fibers and additives investigated by 1H NMR relaxometry, AIP Conference Proceedings, 1917, 040008 (2017).	0	5	5.00	0.000	0.00	0.00
E Jumate, C Aciu, DL Manea, D Moldovan, R Chelcea, R Fechete, Plastering mortar with antibacterial and antifungal properties studied by 1 H NMR relaxometry, AIP Conference Proceedings 1917, 040007 (2017)	0	6	5.50	0.000	0.00	0.00
Anamaria Victoria Bumbu, Radu Fechete, Marcel Perian, Bogdan Septimiu Bumbu, Klara Brinzaniuc, Sciatic Nerve Regeneration in Wistar Albino Rats Evaluated by in vivo Conductivity and in vitro 1H NMR Relaxometry, Acta Medica Marisiensis, 64(1):22-27 (2018).	0	5	5.00	0.000	0.00	0.00
Sjören Schweizerhof, Dan Eugen Demco, Ahmed Mourran, Radu Fechete, Martin Möller, Polymers Diffusivity Encoded by Stimuli-Induced Phase Transition: Theory and Application to Poly(N-Isopropylacrylamide) with Hydrophilic and Hydrophobic End Groups, Macromol. Chem. Phys. 219, 1700587 (2018).	0	5	5.00	0.509	0.10	0.00
Sjören Schweizerhof, Dan Eugen Demco, Ahmed Mourran, Radu Fechete, Martin Moeller, Diffusion of Gold Nanorods Functionalized with Thermoresponsive Polymer Brushes, Langmuir 34, 8031–8041 (2018).	0	5	5.00	0.857	0.17	0.00
A. V. Bumbu, I. Radu, M. Perian, K. Brînzaniuc, R. Fechete, A COMPARISON BETWEEN TWO RECONSTRUCTION PROCEDURES IN PERIPHERAL NERVE REGENERATION USING IN VIVO AND IN VITRO ELECTRIC CONDUCTIVITY, Acta Medica Transilvanica 23 (3), 28-30 (2018).	0	5	5.00	0.000	0.00	0.00

Ramona Crainic, Lavinia R. Dragan, Radu Fechete , α H NMR RELAXOMETRY AND ATR-FT-IR SPECTROSCOPY USED FOR THE ASSESMENT OF WASTEWATER TREATMENT IN SLAUGHTERHOUSE, Studia Universitatis Babes-Bolyai, Physica 63, 49-60 (2018).	1	3	3.00	0.000	0.00	0.00
Lavinia R. Dragan, Ramona Crainic, Radu Fechete, A COMPARATIVE STUDY FOR NATURAL DEGRADATION OF THREE LOCAL ANESTHETIC DRUGS FOR HUMAN USE BY α H NMR RELAXOMETRY AND FT-IR SPECTROSCOPY. Studia Universitatis Babes-Bolyai, Physica 63, 61-73 (2018).	1	3	3.00	0.000	0.00	0.00
Reka David Magdalena, Viorica Nagy, F. Stamatian, Tunde Kovacs, V. Bura, Iris Morar, Roxana Pintican, Radu Fechete, IN VIVO 1H MAGNETIC RESONANCE SPECTROSCOPY OFWOMAN'S NORMAL AND CANCEROUS UTERUS, Obstetrica si Ginecologia LXVI, 105- 112 (2018).	0	8	6.50	0.000	0.00	0.00
Réka Emma Dávid, Radu Fechete, Silviu Sfrângeu, Dumitrita Moldovan, Ramona Ioana Chelcea, Iris Adina Morar, Florin Stamatian, Tunde Kovacs, Paula Popoi, In Vivo 1H Nuclear Magnetic Resonance Spectroscopy and Relaxometry Maps of the Human Female Pelvis, Analytical Letters 52 (1), 54-77 (2019).	1	9	7.00	0.201	0.03	0.20
R. E. Suarasan, S. R. Budu, I. Suarasan, D. Moldovan, R. Fechete, Complex Influence of Intense Electric Fields upon Ozone and Free Radicals from Aqueous Solutions, 6th International Conference on Advancements of Medicine and Health Care through Technology; 17–20 October 2018, Cluj-Napoca, Romania, 347-350 (2019)	0	5	5.00	0.000	0.00	0.00
I. Florea, E. Jumate, D. L. Manea, R. Fechete, NMR Study on New Natural Building Materials, Procedia Manufacturing 32, 224-229 (2019).	0	4	4.00	0.000	0.00	0.00
K. H. Tan, D. E. Demco, R. Fechete, A. Pich, Functional selenium modified microgels: temperature-induced phase transitions and network morphology, Soft matter 15 (15), 3227-3240 (2019).	0	4	4.00	0.947	0.24	0.00

Anamaria Victoria Bumbu, Marcel Perian, Radu Fechete, Calina Dan, Ioana Radu, Klara Brinzaniuc, The Role of Muscle Cells and Fat Cells in Nerve Regeneration Evaluated by in vivo Electric Conductivity, REV. CHIM., 70 (8), 2954-2958, (2019).	0	6	5.50	0.064	0.01	0.00
I. A. MORAR, R. PINTICAN, R. E. DAVID, T. KOVACS and R. FECHETE, IN VIVO 1H NMR RELAXOMETRY MAPS OF WOMEN NORMAL AND CANCEROUS PELVIS STUDIA UBB PHYSICA, 64, 55-65, (2019)	1	5	5.00	0.000	0.00	0.00
T. Fischer, D. E. Demco, R. Fechete, M. Möller, S. Singh, Poly (vinylamine-co-N-isopropylacrylamide) linear polymer and hydrogels with tuned thermoresponsivity, Soft Matter 16 (28), 6549-6562, (2020).	0	5	5.00	0.947	0.19	0.00
A. Chiorean, R. M. Pintican, M.M. Duma, R. Fechete, D. Feier, M. Szep, S. Dudea, Visualization of the shear wave on gray-scale ultrasound: experience with a complex breast cyst, Medical Ultrasonography, 0, 1-3, (2020).	0	7	6.00	0.342	0.06	0.00
Ramona Crainic, Radu Fechete, Advanced monitoring of a laboratory scale modular green roof model, AIP Conference Proceedings 2206 (1), 030004, (2020).	1	2	2.00	0.000	0.00	0.00
L. R. Dragan, E. Jumate, C. Aciu, D. L. Manea, R. Fechete, Advanced characterization of plastering mortars with glass waste additives, AIP Conference Proceedings 2206 (1), 030005, (2020).	1	5	5.00	0.000	0.00	0.00
A. O. Pinte, D. L. Manea, C. Aciu, E. Jumate, R. Fechete, Plastering mortar with organic natural polymers studied by 1H NMR relaxometry, AIP Conference Proceedings 2206 (1), 050004, (2020).	0	5	5.00	0.000	0.00	0.00
R. Fechete, I.A. Morar, D. Moldovan, R.I. Chelcea, R. Crainic, S.C. Nicoara, Fourier and Laplace-like low-field NMR spectroscopy: The perspectives of multivariate and artificial neural networks analyses, Journal of Magnetic Resonance 324, 106915, (2021).	1	6	5.50	0.605	0.11	0.61

C. Tripon, N. Cobarzan, R. Fechete, A.A. Balog, R. Gutt, D. Dadarlat, Ugo Zammit, Fulvio Mercuri, Stefano Paoloni, Non-contact photopyroelectric approach for complete thermal characterization of porous building materials, <i>Thermochimica Acta</i> , 178943, (2021).	0	9	7.00	0.475	0.07	0.00
L Hussmann, T Belthle, DE Demco, R Fechete, A Pich, Stimuli-responsive microgels with cationic moieties: characterization and interaction with E. coli cells, <i>Soft Matter</i> 17 (38), 8678-8692 (2021).	0	5	5.00	0.892	0.18	0.00
D Moldovan, R Fechete, Bimodal 1H Double Quantum Build-Up Curves by Fourier and Laplace-like Transforms on Aged Cross-Linked Natural Rubber, <i>Polymers</i> 13 (20), 3523 (2021).	1	2	2.00	0.597	0.30	0.60
Roxana M Pintican, Reka David Kerekes, Vlad Bura, Florin Stamatian, Tunde Kovacs, Iris Morar, Viorica Nagy, Radu Fechete, Angelica Chiorean, T2* relaxometry maps of the uterus–Future pro-spectives with oncology implications, <i>J Clin Images Med Case Rep</i> , 3(2), 1102, (2021)	0	9	7.00	0.000	0.00	0.00
Daniel Cadar, Daniela Lucia Manea, Dumitrita Moldovan, Elena Jumate, Radu Fechete, Behavior Analysis of One–Component Waterproofing Mortars by Mechanical and NMR Investigations, <i>Lecture Notes in Networks and Systems</i> , 386, 93-99, (2021).	0	5	5.00	0.000	0.00	0.00
Pompilia Mioara Purcea Lopes, Dumitrita Moldovan, Marioara Moldovan, Rahela Carpa, Codruta Sarosi, Petru Pascuta, Amalia Mazilu Moldovan, Radu Fechete, Violeta Popescu, New Composite Hydrogel Based on Whey and Gelatin Crosslinked with Copper Sulphate, <i>Materials</i> , 7(15), 2611, (2022).	0	9	7.00	0.595	0.09	0.00
Lavinia Raluca Dragan, David Andras, Radu Fechete, Fourier Transform Infrared (FT-IR) Spectroscopy and Proton Nuclear Magnetic Resonance (1H NMR) Relaxometry and Diffusometry for the Identification of Colorectal Cancer in Blood Plasma, <i>Analytical Letters</i> , 1-17, (2022).	1	3	3.00	0.251	0.08	0.25

R. I. Chelcea, D. Danis, Radu Fechete, Structural and Kinetic Characterization of Unexpired and Expired Drugs by Proton Nuclear Magnetic Resonance (1H NMR) Relaxometry and Fourier Transform Infrared (FT-IR) Spectroscopy, Analytical Letters, (https://doi.org/10.1080/00032719.2022.2080838) (2022).	1	3	3.00	0.251	0.08	0.25
ML Tintisan, AC Siomin, M Moldovean, AM Zaharie, R Istoan, E Jumate, DL Manea, R Fechete, Investigation of microstructural development in mortars with recycled paper ash used as cement replacement, using NMR relaxometry, International Conference on Innovative Research (ICIR Euroinvent 2022), 1251, 012007 (2022).	0	8	6.50	0.000	0.00	0.00
AC Siomin, ML Tintisan, A Zaharie, M Moldoveanu, DL Manea, E Jumate, R Fechete, Identifying the structure of a plaster mortar mixtures on the basis of NMR investigations, International Conference on Innovative Research (ICIR Euroinvent 2022), 1251, 012009, (2022).	0	7	6.00	0.000	0.00	0.00
R. Pintican, R. Fechete, B. Boca, M. Cambrea, T. Leonte, O. Camuescu, D. Gherman, I. Bene, L. D. Ciule, C. A. Ciortea, S. M. Dudea, A. I. Ciurea, Predicting the Early Response to Neoadjuvant Therapy with Breast MR Morphological, Functional and Relaxometry Features—A Pilot Study, Cancers, 14, 5866, (2022).	1	12	8.50	1.172	0.14	1.17
Emese Orban, Zsuzsanna Pap, Andreea Maria Micu, Remus Sebastian Sipos, Radu Fechete, Callus formation in albino Wistar rats after femur fracture assessed by visible spectroscopy, Biochemical and Biophysical Research Communications 634 168-174, (2022).	0	5	5.00	0.620	0.12	0.00
P. M. Purcea Lopes, D. Moldovan, R. Fechete, D. Prodan, C. R. Pop, A. M. Rotar, V. Popescu, Swelling and Antimicrobial Activity Characterization of a GO-Reinforced Gelatin—Whey Hydrogel, Gels, 9, 18 (2023).	0	7	6.00	0.766	0.13	0.00
Daniel Cadar, Daniela Lucia Manea, Elena Jumate, Florin Popa, Dumitrita Moldovan, Radu Fechete, Structural and dynamic characterization of two-component waterproof mortars by 1H NMR, FT-IR, mechanical and SEM investigations, Construction and Building Materials, 378, 131182 (2023).	0	6	5.50	0.894	0.16	0.00

R. I. Chelcea, D. Danis, Radu Fechete, Structural and Kinetic Characterization of Unexpired and Expired Drugs by Proton Nuclear Magnetic Resonance (1H NMR) Relaxometry and Fourier Transform Infrared (FT-IR) Spectroscopy, Analytical Letters,, 56 (2), 372-389 (2023).	1	3	3.00	0.239	0.08	0.24
Lavinia Raluca Dragan, David Andras, Radu Fechete, Fourier Transform Infrared (FT-IR) Spectroscopy and Proton Nuclear Magnetic Resonance (1H NMR) Relaxometry and Diffusometry for the Identification of Colorectal Cancer in Blood Plasma, Analytical Letters, 56 (2), 286-302, (2023).	1	3	3.00	0.239	0.08	0.24
O Dinescu, E Orban, RS Sipos, R Fechete, Eficientizarea metodelor de evaluare a proprietăților țesutului osos, Medic. ro 153 (3) (2023).	0	4	4.00	0.000	0.00	0.00
Pompilia Mioara Purcea Lopes, Dumitrita Moldovan, Radu Fechete, Liviu Mare, Lucian Barbu-Tudoran, Niculina Sechel, Violeta Popescu, Characterization of a Graphene Oxide-Reinforced Whey Hydrogel as an Eco-Friendly Absorbent for Food Packaging, Gels 9 (4), 298 (2023).	0	7	6.00	0.626	0.10	0.00
C Saitis, DL Manea, R Fechete, LM Plesa, L Saitis, Analysis of mortars with old plastering waste using state-of-the-art method: nuclear magnetic resonance, IOP Conference Series: Materials Science and Engineering 1283 (1), 012009 (2023).	0	5	5.00	0.000	0.00	0.00
E Orban, Z Pap, R Fechete, RS Sipos, Effect of hypolipidemic drugs on the process of callus formation assessed by Fourier transform infrared spectroscopy, Vibrational Spectroscopy, 103546 (2023).	1	4	4.00	0.409	0.10	0.41
RS Sipos, S Szasz, R Fechete, E Coman, F Ruta, "Pullum Ovum". Highlighting the Nutrient Content through Innovative Determination Methods, Agriculture 13 (9), 1648 (2023).	0	5	5.00	0.437	0.09	0.00

Susanne Braun, Marta Santi, Dan Eugen Demco, Inga Litzen, Jan Uecker, Radu Fechete, Jacek Janusz Walkowiak, Andrij Pich, Investigation of morphology and volume phase transition of supramacromolecular microgels by NMR spectroscopy and quartz crystal microbalance, Journal of Polymer Science, DOI10.1002/pol.20230852 (2024)	0	8	6.50	0.437	0.07	0.00
Pompilia Mioara Lopes, Radu Fechete, Felicia Minteuan, Liviu Mare, Dumitrița Moldovan, Marioara Moldovan, Stanca Cuc, Codruța Liana Saroși, Violeta Popescu, The Influence of Lyophilization Pretreatment and Whey Content on Whey and Gelatin-Based Hydrogels, Gels 10 (4), 229 (2024)	0	9	7.00	0.626	0.09	0.00
TOTAL					11.53	16.09

Note:

Coloanele A-F pot fi prezentate și comasat.

Numărul efectiv de autori este calculat conform formulelor din Anexa nr. 3, OM

6129/2016:

n , dacă $n \leq 5$; $(n + 5)/2$, dacă $5 < n \leq 15$; $(n + 15)/3$, dacă $15 < n \leq 75$ și $(n + 45)/4$, dacă $n >$

75.

Titlu articol	CITARI								
	Autori	Jurnal	An	Vol	Pag	n (numar autori)	numar efectiv	numar citari (fara autocitari)	c/n_ef
A. Lupulescu, R. Fechete, D.E. Demco and O. Cozar, Single-Quantum NMR Spinning-Side-Band Patterns for Spin-3/2 System, Acta Physica Polonica A, 92(6), (1997)						2	2.00	0	0.00
R. Ordean, R. Fechete, C. Filip, O. Pana, L.V. Giurgiu, C. Kessler, M. Mehring Charge Delocalisation in Quasi-One-Dimensional Molecular Conductor KCP as seen by ESR, Roum. J. Phys. 43, 481-487 (1998).						3	3.00	0	0.00
K. Hailu, R. Fechete, D. E. Demco, and B. Blümich, Anisotropy of Transverse 1H Magnetisation Relaxation in Strained Elastomers by NMR-MOUSE®, NATO-ARW on Magnetic Resonance in Colloid and Interface Science, eds. J. Fraissard and O. LAPina., St. Petersburg, Russia, 525-530 (2001).						4	4.00	0	0.00
R. Fechete, D. E. Demco, and B. Blümich, Segmental Anisotropy in Strained Elastomers by 1H NMR of Multipolar Spin States, Macromolecules 35, 6083-6085 (2002).						3	3.00	23	7.67
K. Hailu, R. Fechete, D. E. Demco, and B. Blümich, Segmental Anisotropy Induced in Strained Elastomers Detected with a Portable NMR Scanner, Solid State Nucl. Magn. Reson. 22, 327-343 (2002).						4	4.00	18	4.50
B. Blümich, V. Anferov, S. Anferova, M. Klein, R. Fechete, M. Adams, F. Casanova, A Simple NMR-MOUSE® with a Bar Magnet, Magn. Res. Eng., 15(4), 255-261 (2002).						7	6.00	68	11.33
R. Fechete, D. E. Demco, and B. Blümich, Chain Orientation and Slow Dynamics in Elastomers by Mixed Magic-Hahn Echo Decays, J. Chem. Phys., 118(5), 2411-2421 (2003).						3	3.00	40	13.33
R. Fechete, D. E. Demco, B. Blümich, U. Eliav, and G. Navon, Anisotropy of Collagen Fiber Orientation in Sheep Tendon by 1H Double-Quantum-Filtered NMR Signals, J. Magn. Reson., 161 (3), (2003).						5	5.00	36	7.20
B. Blümich, V. Anferov, S. Anferova, M. Klein, R. Fechete, A NMR-MOUSEÑ for Analysis of Thin Objects, Macromolecular Materials & Engineering, 288(4), 312-317 (2003)						5	5.00	20	4.00
D.E. Demco, R. Fechete, and B. Blümich, Residual van Vleck moments in elastomers by accordion magic sandwich, Chem. Phys. Lett., 375, 406-412 (2003).						3	3.00	4	1.33
R. Fechete, Chain orientation and slow dynamics of elastomers and ordered tissues by advanced NMR, Chemisch Weekblad, The Netherlands, 99, 13 (2003).						1	1.00	0	0.00
R. Fechete, D.E. Demco, and B. Blümich, Self-diffusion Anisotropy of Small Penetrants in Compressed Elastomers, Macromolecules, 36, 7155-7157 (2003).						1	1.00	5	5.00

M. Todica, R. Fecete, and B. Blümich, Selective NMR excitation in strongly inhomogeneous magnetic fields, J. Magn. Reson., 164 220-227 (2003)	3	3.00	16	5.33
M. Klein, R. Fecete, D.E. Demco, and B. Blümich, Self-Diffusion Measurements by Constant-Relaxations Method in Strongly Inhomogeneous Magnetic Fields, J. Magn. Reson., 164 310-320 (2003).	4	4.00	29	7.25
R. Fecete, D.E. Demco, and B. Blümich, Parameter maps of 1H residual dipolar couplings in tendon under mechanical load, J. Magn. Reson., 165 9-17 (2003).	3	3.00	10	3.33
R. Fecete, D.E. Demco, and B. Blümich, Order parameters of orientation distributions of collagen fibers in tendon by Multipolar spin states filtered NMR signals, NMR in Biomedicine, 16, 8, 479-483 (2003).	3	3.00	11	3.67
R. Fecete, D.E. Demco, and B. Blümich, Enhanced sensitivity to residual dipolar couplings by high-order multiple-quantum NMR, J. Magn. Reson., 169, 19-26 (2004).	3	3.00	15	5.00
B. Blümich, D.E. Demco, R. Fecete, Auslegung mobiler NMR-Sonden zur zerstörungsfreien Prüfung, Computational Chemistry: Berichte aus der RWTH-Aachen, 2, 28-31 (2004).	3	3.00	0	0.00
S. Anferova, V. Anferov, M. Adams, R. Fecete, G. Schröder and B. Blümich, A temperature control unit for operation with the NMR-MOUSE®: application to thermo-oxidative aging of elastomers, App. Magn. Reson., 27, 3-4, 1-10 (2005).	6	5.50	14	2.55
D.E. Demco, G. Rata, R. Fecete, and B. Blümich, A new tool to investigate segmental anisotropy in strained elastomers by the anisotropy of self-diffusion of small penetrant molecules, Macromolecules, 38, 5647-5653 (2005).	4	4.00	8	2.00
R. Fecete, D.E. Demco, B. Blümich, U. Eliav, G. Navon, Self-diffusion anisotropy of water in sheep Achilles tendon, NMR in Biomedicine, 18, 577-586 (2005).	5	5.00	23	4.60
M. Todica, R. Fecete, and B. Blümich, Selective saturations in strongly inhomogeneous magnetic fields, App. Magn. Reson., 29, 655-667 (2005).	3	3.00	1	0.33
M. Butnaru, R. Marcean, O. Cozar, I. Bratu and R. Fecete, The behaviour of some butadiene elastomers submitted to the degrading action of climatic factors studied by photoacoustic technique, Studia Babes-Bolyai, Physica, L 4b, 633-636 (2005).	5	5.00	0	0.00
M. Butnaru, R. Marcean, O. Cozar, I. Bratu and R. Fecete, The action of marine climate on some polymers, Studia Babes-Bolyai, Physica, L 4b, 637-640 (2005).	5	5.00	0	0.00
M. Butnaru, R. Marcean, O. Cozar, I. Bratu and R. Fecete, Application of NMR techniques in studying the dynamics of some polymers, Studia Babes-Bolyai, Physica, L 4b, 641-645 (2005).	5	5.00	0	0.00
M. Butnaru, R. Marcean, O. Cozar, I. Bratu and R. Fecete, Application of an IR techniques in studying the structure of some polymers, Studia Babes-Bolyai, Physica, L 3, 264-270 (2005).	5	5.00	0	0.00

Marko Bertmer, Dan E. Demco, Mingfei Wang, Claudiu Melian, Ramona I. Marcean-Chelcea, Radu Fechete, Maria Baias, Bernhard Blümich, Segmental dynamic heterogeneity of short-chain-grafted-poly(dimethylsiloxane) by ¹ H spin-diffusion NMR, Chem. Phys. Letter, 431, 404-409 (2006).	8	6.50	4	0.62
E. Culea, L. Pop, R. Fechete, P. Pascuta, S. Rada, M. Culea, M. Bosca, R. Chelcea, Spectroscopic and Magnetic Properties of xGd ₂ O ₃ (1-x)[0.15 Bi ₂ O ₃ -0.85 TeO ₂] Glasses, Annals of the West University of Timisoara. Physics Series 49, 55 (2006).	8	6.50	0	0.00
L. Pop, E. Culea, M. Culea, S. Rada, P. Pascuta, R. Fechete, M. Bosca, R. Chelcea, Structural Properties of B ₂ O ₃ -PbO Glasses Doped with Rare Earth Ions, Annals of the West University of Timisoara. Physics Series, 48, 204 (2006).	8	6.50	0	0.00
R. Marcean-Chelcea, R. Fechete, E. Culea, D.E. Demco, B. Blümich, Segmental Order and Dynamics of Polymer Networks Using Dipolar Correlation Effect Measured in Low Field NMR, American Institute of Physics CP899, 561 (2007).	5	5.00	0	0.00
R. Marcean-Chelcea, R. Fechete, E. Culea, D.E. Demco, B. Blümich, Microscopic and Macroscopic Properties Correlations of Polymer Networks Measured in Low Field NMR, American Institute of Physics CP899, 567 (2007).	5	5.00	0	0.00
R. I. Chelcea, R. Fechete, E. Culea, D. E. Demco and B. Blümich, Distributions of transverse relaxation times for soft-solids measured in strongly inhomogeneous magnetic fields, J. Magn. Reson., 196, 178-190 (2009).	5	5.00	33	6.60
Maria Baias, Dan E. Demco, Crisan Popescu, Radu Fechete, Claudiu Melian, Bernhard Blümich, and Martin Möller, Thermal Denaturation of Hydrated Wool Keratin by ¹ H Solid-State NMR, J. Phys. Chem. B, 113, 2184-2192, (2009).	7	6.00	31	5.17
D. Moldovan, R. Fechete, D. E. Demco, E. Culea and B. Blümich, Monte - Carlo simulations of the two-dimensional NMR T ₂ -T ₂ exchange of fluids in porous media, Diffusion Fundamentals, 10 20.1 - 20.3 (2009).	5	5.00	0	0.00
R. Fechete, D. Moldovan, D. E. Demco and B. Blümich, Laplace inversions applied to multi-component T ₂ -T ₂ exchange experiments, Diffusion Fundamentals, 10 14.1 - 14.3 (2009).	4	4.00	0	0.00
I. Cosma , E. Culea, R. Fechete and S. Nicoara, Statistics of interatomic Ni-Ni bonds in Ni-based ternary solid solutions with non magnetic elements and their magnetic behavior, Modern Phys. Lett. B, Vol. 23, No. 9 1199-1206 (2009).	4	4.00	1	0.25
Claudiu Melian, Dan E. Demco, Monica Istrate, Andreea Balaceanu, Dumitrita Moldovan, Radu Fechete, Crisan Popescu, Bernhard Blümich, and Martin Möller, Morphology and side chain dynamics in hydrated hard α -keratin fibres by ¹ H solid-state NMR Chem. Phys. Lett. 480 300–304 (2009).	9	7.00	9	1.29

D. Moldovan, R. Fechete, D. E. Demco, E. Culea, B. Blümich, V. Herrmann, M. Heinz, Heterogeneity of Nanofilled EPDM Elastomers Investigated by Inverse Laplace Transform 1H NMR Relaxometry and Rheometry, <i>Macromol. Chem. Phys.</i> , 211, 1579-1594 (2010).	7	6.00	10	1.67
D. Moldovan, R. Fechete, D. E. Demco, E. Culea, B. Blümich, V. Herrmann, M. Heinz, The heterogeneity of segmental dynamics of filled EPDM by 1H transverse relaxation NMR, <i>J. Magn. Reson.</i> , 208 156-162 (2011).	7	6.00	15	2.50
C. Filipoi, D. E. Demco, X. Zhu, R. Vinokur, O. Conradi, R. Fechete, M. Möller, Channel orientation anisotropy in perfluorosulfonic acid/SiO ₂ composite proton exchange membranes: Water self-diffusion study using NMR, <i>Chem. Phys. Lett.</i> , 513, 251–255 (2011).	7	6.00	8	1.33
L. Utiu, , D. E. Demco, R. Fechete, M. Möller, C. Popescu, Morphology and molecular dynamics of hard α -keratin based micro-tubes by 1H and 13C solid-state NMR, <i>Chem. Phys. Lett.</i> , 517 (1-3), 86-91, (2011).	5	5.00	7	1.40
D. Moldovan, M. Pop, R. Fechete, A. Baudouine, M. Todica, Investigation of the effects of degradation of high density polyethylene by 13C NMR spectroscopy and 1H relaxometry, <i>Studia Univ. Babes-Bolyai Chemia (3)</i> , 103-110, (2011).	5	5.00	1	0.20
M. Pop, S. Traian, L. Daraban, R. Fechete, 13C NMR study of gamma irradiated polystyrene, <i>Studia Univ. Babes-Bolyai, Chemia (3)</i> , 129-134, (2011).	4	4.00	4	1.00
C. I. Horvat, X. Zhu, D. Türp, R. A. Vinokur, D. E. Demco, R. Fechete, O. Conradi, A. Graichen, D. Anokhin, D. A. Ivanov, M. Möller, Perfluorosulfonic acid ionomer – silica composite membranes prepared using hyperbranched polyethoxysiloxane for polymer electrolyte membrane fuel cells, <i>Int. J. Hydr. Energy</i> , 37 (19) 14454–14462 (2012).	11	8.00	12	1.50
C. Filipoi, D. E. Demco, X. Zhu, R. Vinokur, O. Conradi, R. Fechete, M. Möller, Water self-diffusion anisotropy and electrical conductivity of perfluorosulfonic acid/SiO ₂ composite proton exchange membranes, <i>Chem. Phys. Lett.</i> , 554 143–149 (2012).	7	6.00	8	1.33
N. Cioica, R. Fechete, O. Cozar, C. Cota, Investigate the effect of some plasticizers on the macrostructure of corn starch used to obtain biodegradable packaging, <i>INMATEH - Agricultural Engineering</i> , Volume 36, Issue 1, 2012, Pages 69-70, (2012)	4	4.00	0	0.00
D. Demco; A.-M. Oros-Peusquens, L. Utiu, R. Fechete, B. Blümich, N. J. Shah, Molecular dynamics parameter maps by 1H Hahn echo and mixed-echo phase-encoding MRI, <i>J. Magn. Reson.</i> , 227, 1–8 (2013).	6	5.50	2	0.36
N. Cioica, R. Fechete, C. Cota, E.M. Nagy, L. David, O. Cozar, NMR relaxation investigation of the native corn starch structure with plasticizers, <i>J. Molec. Struct.</i> , 1044, 128–133 (2013).	6	5.50	11	2.00
Cioica, N; Fechete, R; Cota, C; Nagy, EM; Cozar, O; Pop, C. V., STRUCTURAL CHANGES OF THE CORN STARCH FROM ROMANIA USED TO MAKE BIODEGRADABLE PACKAGING ACTUAL TASKS ON AGRICULTURAL ENGINEERING, 41, 398-404, (2013)	6	5.50	12	2.18

D. Demco; Carmen Filipo, Xiaomin Zhu, Radu Fechete, Martin Möller, Morphological Heterogeneity by Diffusional Kurtosis NMR Spectroscopy in Perfluorosulfonic Acid/SiO ₂ Composite Proton-Exchange Membranes, <i>Macromol. Chem. Phys.</i> , 214, 1345-1355 (2013)	5	5.00	2	0.40
E. Jumate, D. Moldovan, R. Fechete, D. Manea, NMR Relaxometry Study Of Plaster Mortar With Polymer Additives, AIP Conference Proceedings, <i>AIP Conf. Proc.</i> 1565, 112-116 (2013).	4	4.00	6	1.50
R. Fechete, D. E. Demco, X. Zhu, W. Tillmann, R. Vinokur, M. Möller, Water states and dynamics in perfluorinated ionomer proton exchange membranes by ¹ H one- and two-dimensional NMR spectroscopy, relaxometry, and diffusometry, <i>Chem. Phys. Lett.</i> 597 6-15 (2014).	6	5.50	11	2.00
Nicolae Cioica, Radu Fechete, Ramona Chelcea, Constantin Cota, Mihai Todica, Cornel V. Pop , Onuc Cozar, Water Absorption And Degradation Of Packages Based On Native Corn Starch With Plasticizers, <i>STUDIA UBB CHEMIA, LX, 1</i> , 45-55 (2015).	7	6.00	2	0.33
Ramona I. Chelcea, Remus S. Sipos, Radu Fechete, Dumitrita Moldovan, Ioana Sus, Zoltan Pávai and Dan E. Decmo, One-Dimensional Laplace Spectroscopy Used For The Assessment Of Pore-Size Distribution On The Ovariectomized Rats Femur, <i>STUDIA UBB CHEMIA, LX, 1</i> , 57-70 (2015).	7	6.00	3	0.50
E. Jumate, D. L. Manea, C. Aciu, L. Molnar, R. Fechete, Innovative Materials Made by Adding Cellulose to Cement Mortars, <i>Procedia Technology</i> 19, 291 – 298 (2015).	5	5.00	3	0.60
R. S. Sipos, R. Fechete, D. Moldovan, I. Sus, S. Szasz, Z. Pávai, Assessment of femoral bone osteoporosis in rats treated with simvastatin or fenofibrate, <i>Open Life Sci</i> 10, 379-387 (2015).	6	5.50	5	0.91
R. S. Sipos, R. Fechete, R. I. Chelcea, D. Moldovan, Z. Pap, Z. Pávai, D. E. Demco, Ovariectomized rats' femur treated with fibrates and statins. Assessment of pore-size distribution by ¹ H-NMR relaxometry, <i>Rom J Morphol Embryol</i> 56 (2 Suppl), 743-752 (2015).	7	6.00	2	0.33
N. Cioica, R. Fechete, C. Filip, I. B. Cozar, C. Cota, E. M. Nagy, NMR and SEM Investigation of Extruded Native Corn Starch with Plasticizers, <i>Rom. J. of Phys.</i> 60 (3-4), 512-520 (2015).	6	5.50	0	0.00
C. Cota, N. Cioica, C. Filip, R. Fechete, M. Todica, E. M. Nagy, O. Cozar, Spectroscopic investigation of the constituent components effect on the biodegradable package characteristics, <i>AIP Conf. Proc.</i> 1700, 040002-1–040002-5, (2015).	7	6.00	1	0.17
E. Jumate, D. Moldovan, D.L. Manea, D.E. Demco, R. Fechete, The Effects of Cellulose Ethers and Limestone Fillers in Portland Cement-Based Mortars by ¹ H NMR relaxometry, <i>App. Magn. Reson.</i> 47 (12), 1353-1373 (2016).	5	5.00	7	1.40
R.S. Sipos, R. Fechete, D. Moldovan, I. Sus, Z. Pávai, D.E. Demco, Ovariectomy-Induced Osteoporosis Evaluated by ¹ H One-and Two-Dimensional NMR Transverse Relaxometry, <i>Applied Magnetic Resonance</i> 47 (12), 1419-1437 (2016).	6	5.50	0	0.00

S. Singh, D. E. Demco, K. Rahimi, R. Fechete, J. C. Rodriguez-Cabello, M. Möller, Coacervation of Elastin-Like Recombinamer Microgels, <i>Macromolecular rapid communications</i> 37 (2), 181-186 (2016).	6	5.50	9	1.64
D. M. Andres, D. L. Manea, R. Fechete, E. Jumate, Clay Mortar Performance Improvement by Modifying the Physical Characteristics of Wheat Straw, <i>Procedia Technology</i> 22, 335-342 (2016).	4	4.00	4	1.00
D. M. Andres, D. L. Manea, R. Fechete, E. Jumate, Green Plastering Mortars Based on Clay and Wheat Straw, <i>Procedia Technology</i> 22, 327-334 (2016).	4	4.00	4	1.00
S. Singh, D. E. Demco, K. Rahimi, R. Fechete, J. C. Rodriguez-Cabello, M. Möller, Aggregation behaviour of biohybrid microgels from elastin-like recombinamers, <i>SoftMatter</i> , 12 , 6240--6252 (2016).	6	5.50	5	0.91
Ph. Kensbock, D. E. Demco, S. Singh, K. Rahimi, R. Fechete, A. Walther, A. M. Schmidt, M. Moeller, Peptizing Mechanism at the Molecular Level of Laponite Nanoclay Gels, <i>Langmuir</i> , 33 (1), pp 66–74 (2017).	8	6.50	5	0.77
O. Cozar, N. Cioica, C. Cota, E.M. Nagy, R. Fechete, Plasticizers effect on native biodegradable package materials, <i>AIP Conference Proceedings</i> 1796 (1), 040008 (2017).	5	5.00	2	0.40
S. Schweizerhof, D. E. Demco, A. Mourran, H. Keul, R. Fechete, M. Möller, Temperature-Induced Phase Transition Characterization of Responsive Polymer Brushes Grafted onto Nanoparticles, <i>Macromol. Chem. Phys.</i> , 218(6), 1600495 (2017).	6	5.50	11	2.00
R. I. Chelcea, D. Moldovan, D. E. Demco, E. Culea, R. Fechete, In vitro degradation and phase composition of cosmetic emulsions, <i>Studia Universitatis Babes-Bolyai Chemia</i> , 62(1), pp. 73-88 (2017).	5	5.00	1	0.20
E. Jumate, D. L. Manea, D. Moldovan, R. Fechete, The Effects of Hydrophobic Redispersible Powder Polymer in Portland Cement Based Mortars, <i>Procedia Engineering</i> , 181, pp. 316-323 (2017)	4	4.00	4	1.00
S. Schweizerhof, D. E. Demco, A. Mourran, H. Keul, R. Fechete, M. Möller, Thermodynamic Parameters of Temperature-Induced Phase Transition for Brushes onto Nanoparticles: Hydrophilic versus Hydrophobic End-Groups Functionalization, <i>Macromolecular Rapid Communications</i> , 38, 1700362 (2017).	6	5.50	6	1.09
Onuc COZAR, Nicolae CIOICA, Elena Mihaela NAGY, Constantin COTA, Radu FECHETE, Claudiu FILIP, STRUCTURAL INVESTIGATION OF SOME NATIVE BIODEGRADABLE PACKAGING MATERIALS, <i>Studia Universitatis Babes-Bolyai, Ephemerides</i> , 62 19-28 (2017).	6	5.50	0	0.00
Andrei Mustea, Daniela L Manea, Elena Jumate, Yvette A Orbán, Radu Fechete, Plaster mortars with polymer fibers and additives investigated by 1H NMR relaxometry, <i>AIP Conference Proceedings</i> , 1917, 040008 (2017).	5	5.00	0	0.00
E Jumate, C Aciu, DL Manea, D Moldovan, R Chelcea, R Fechete, Plastering mortar with antibacterial and antifungal properties studied by 1 H NMR relaxometry, <i>AIP Conference Proceedings</i> 1917, 040007 (2017)	6	5.50	0	0.00
Anamaria Victoria Bumbu, Radu Fechete, Marcel Perian, Bogdan Septimiu Bumbu, Klara Brinzaniuc, Sciatic Nerve Regeneration in Wistar Albino Rats Evaluated by in vivo Conductivity and in vitro 1H NMR Relaxometry, <i>Acta Medica Marisiensis</i> , 64(1):22-27 (2018).	5	5.00	0	0.00

Sjören Schweizerhof, Dan Eugen Demco, Ahmed Mourran, Radu Fechete, Martin Möller, Polymers Diffusivity Encoded by Stimuli-Induced Phase Transition: Theory and Application to Poly(N-Isopropylacrylamide) with Hydrophilic and Hydrophobic End Groups, <i>Macromol. Chem. Phys.</i> 219, 1700587 (2018).	5	5.00	3	0.60
Sjören Schweizerhof, Dan Eugen Demco, Ahmed Mourran, Radu Fechete, Martin Moeller, Diffusion of Gold Nanorods Functionalized with Thermoresponsive Polymer Brushes, <i>Langmuir</i> 34, 8031-8041 (2018).	5	5.00	11	2.20
A. V. Bumbu, I. Radu, M. Perian, K. Brînzaniuc, R. Fechete, A COMPARISON BETWEEN TWO RECONSTRUCTION PROCEDURES IN PERIPHERAL NERVE REGENERATION USING IN VIVO AND IN VITRO ELECTRIC CONDUCTIVITY, <i>Acta Medica Transilvanica</i> 23 (3), 28-30 (2018).	5	5.00	0	0.00
Ramona Crainic, Lavinia R. Dragan, Radu Fechete, α H NMR RELAXOMETRY AND ATR-FT-IR SPECTROSCOPY USED FOR THE ASSESSMENT OF WASTEWATER TREATMENT IN SLAUGHTERHOUSE, <i>Studia Universitatis Babes-Bolyai, Physica</i> 63, 49-60 (2018).	3	3.00	1.000	0.33
Lavinia R. Dragan, Ramona Crainic, Radu Fechete, A COMPARATIVE STUDY FOR NATURAL DEGRADATION OF THREE LOCAL ANESTHETIC DRUGS FOR HUMAN USE BY α H NMR RELAXOMETRY AND FT-IR SPECTROSCOPY. <i>Studia Universitatis Babes-Bolyai, Physica</i> 63, 61-73 (2018).	3	3.00	0.000	0.00
Reka David Magdalena, Viorica Nagy, F. Stamatian, Tunde Kovacs, V. Bura, Iris Morar, Roxana Pintican, Radu Fechete, IN VIVO 1H MAGNETIC RESONANCE SPECTROSCOPY OF WOMAN'S NORMAL AND CANCEROUS UTERUS, <i>Obstetrica si Ginecologia LXVI</i> , 105- 112 (2018).	8	6.50	0.000	0.00
Réka Emma Dávid, Radu Fechete, Silviu Sfrângeu, Dumitrita Moldovan, Ramona Ioana Chelcea, Iris Adina Morar, Florin Stamatian, Tunde Kovacs, Paula Popoi, In Vivo 1H Nuclear Magnetic Resonance Spectroscopy and Relaxometry Maps of the Human Female Pelvis, <i>Analytical Letters</i> 52 (1), 54-77 (2019).	9	7.00	1	0.14
R. E. Suarasan, S. R. Budu, I. Suarasan, D. Moldovan, R. Fechete, Complex Influence of Intense Electric Fields upon Ozone and Free Radicals from Aqueous Solutions, 6th International Conference on Advancements of Medicine and Health Care through Technology; 17-20 October 2018, Cluj-Napoca, Romania, 347-350 (2019)	5	5.00	0	0.00
I. Florea, E. Jumate, D. L. Manea, R. Fechete, NMR Study on New Natural Building Materials, <i>Procedia Manufacturing</i> 32, 224-229 (2019).	4	4.00	3	0.75
K. H. Tan, D. E. Demco, R. Fechete, A. Pich, Functional selenium modified microgels: temperature-induced phase transitions and network morphology, <i>Soft matter</i> 15 (15), 3227-3240 (2019).	4	4.00	15	3.75
Anamaria Victoria Bumbu, Marcel Perian, Radu Fechete, Calina Dan, Ioana Radu, Klara Brinzaniuc, The Role of Muscle Cells and Fat Cells in Nerve Regeneration Evaluated by in vivo Electric Conductivity, <i>REV. CHIM.</i> , 70 (8), 2954-2958, (2019).	6	5.50	0	0.00
I. A. MORAR, R. PINTICAN, R. E. DAVID, T. KOVACS and R. FECHETE, IN VIVO 1H NMR RELAXOMETRY MAPS OF WOMEN NORMAL AND CANCEROUS PELVIS <i>STUDIA UBB PHYSICA</i> , 64, 55-65, (2019)	5	5.00	0.000	0.00

T. Fischer, D. E. Demco, R. Fechete, M. Möller, S. Singh, Poly (vinylamine-co-N-isopropylacrylamide) linear polymer and hydrogels with tuned thermoresponsivity, <i>Soft Matter</i> 16 (28), 6549-6562, (2020).	5	5.00	6	1.20
A. Chiorean, R. M. Pintican, M.M. Duma, R. Fechete, D. Feier, M. Szep, S. Dudea, Visualization of the shear wave on gray-scale ultrasound: experience with a complex breast cyst, <i>Medical Ultrasonography</i> , 0, 1-3, (2020).	7	6.00	1	0.17
Ramona Crainic, Radu Fechete, Advanced monitoring of a laboratory scale modular green roof model, <i>AIP Conference Proceedings</i> 2206 (1), 030004, (2020).	2	2.00	1	0.50
L. R. Dragan, E. Jumate, C. Aciu, D. L. Manea, R. Fechete, Advanced characterization of plastering mortars with glass waste additives, <i>AIP Conference Proceedings</i> 2206 (1), 030005, (2020).	5	5.00	0	0.00
A. O. Pinteaa, D. L. Manea, C. Aciu, E. Jumate, R. Fechete, Plastering mortar with organic natural polymers studied by 1H NMR relaxometry, <i>AIP Conference Proceedings</i> 2206 (1), 050004, (2020).	5	5.00	1	0.20
R. Fechete, I.A. Morar, D. Moldovan, R.I. Chelcea, R. Crainic, S.C. Nicoara, Fourier and Laplace-like low-field NMR spectroscopy: The perspectives of multivariate and artificial neural networks analyses, <i>Journal of Magnetic Resonance</i> 324, 106915, (2021).	6	5.50	1	0.18
C. Tripon, N. Cobarzan, R. Fechete, A.A. Balog, R. Gutt, D. Dadarlat, Ugo Zammit, Fulvio Mercuri, Stefano Paoloni, Non-contact photopyroelectric approach for complete thermal characterization of porous building materials, <i>Thermochimica Acta</i> , 178943, (2021).	9	7.00	1	0.14
L Hussmann, T Belthle, DE Demco, R Fechete, A Pich, Stimuli-responsive microgels with cationic moieties: characterization and interaction with E. coli cells, <i>Soft Matter</i> 17 (38), 8678-8692 (2021).	5	5.00	8	1.60
D Moldovan, R Fechete, Bimodal 1H Double Quantum Build-Up Curves by Fourier and Laplace-like Transforms on Aged Cross-Linked Natural Rubber, <i>Polymers</i> 13 (20), 3523 (2021).	2	2.00	1	0.50
Roxana M Pintican, Reka David Kerekes, Vlad Bura, Florin Stamatian, Tunde Kovacs, Iris Morar, Viorica Nagy, Radu Fechete, Angelica Chiorean, T2* relaxometry maps of the uterus–Future pro-spectives with oncology implications, <i>J Clin Images Med Case Rep</i> , 3(2), 1102, (2021)	9	7.00	0	0.00
Daniel Cadar, Daniela Lucia Manea, Dumitrita Moldovan, Elena Jumate, Radu Fechete, Behavior Analysis of One–Component Waterproofing Mortars by Mechanical and NMR Investigations, <i>Lecture Notes in Networks and Systems</i> , 386, 93-99, (2021).	5	5.00	0	0.00
Pompilia Mioara Purcea Lopes, Dumitrita Moldovan, Marioara Moldovan, Rahela Carpa, Codruta Sarosi, Petru Pascuta, Amalia Mazilu Moldovan, Radu Fechete, Violeta Popescu, New Composite Hydrogel Based on Whey and Gelatin Crosslinked with Copper Sulphate, <i>Materials</i> , 7(15), 2611, (2022).	9	7.00	3	0.43

Lavinia Raluca Dragan, David Andras, Radu Fechete, Fourier Transform Infrared (FT-IR) Spectroscopy and Proton Nuclear Magnetic Resonance (1H NMR) Relaxometry and Diffusometry for the Identification of Colorectal Cancer in Blood Plasma, <i>Analytical Letters</i> , 1-17, (2023).	3	3.00	0	0.00
R. I. Chelcea, D. Danis, Radu Fechete, Structural and Kinetic Characterization of Unexpired and Expired Drugs by Proton Nuclear Magnetic Resonance (1H NMR) Relaxometry and Fourier Transform Infrared (FT-IR) Spectroscopy, <i>Analytical Letters</i> , (https://doi.org/10.1080/00032719.2022.2080838) (2022).	3	3.00	1	0.33
ML Tintisan, AC Siomin, M Moldovean, AM Zaharie, R Istoan, E Jumate, DL Manea, R Fechete, Investigation of microstructural development in mortars with recycled paper ash used as cement replacement, using NMR relaxometry, <i>International Conference on Innovative Research (ICIR Euroinvent 2022)</i> , 1251, 012007 (2022).	8	6.50	0	0.00
AC Siomin, ML Tintisan, A Zaharie, M Moldoveanu, DL Manea, E Jumate, R Fechete, Identifying the structure of a plaster mortar mixtures on the basis of NMR investigations, <i>International Conference on Innovative Research (ICIR Euroinvent 2022)</i> , 1251, 012009, (2022).	7	6.00	0	0.00
R. Pintican, R. Fechete, B. Boca, M. Cambrea, T. Leonte, O. Camuescu, D. Gherman, I. Bene, L. D. Ciule, C. A. Ciortea, S. M. Ducea, A. I. Ciurea, Predicting the Early Response to Neoadjuvant Therapy with Breast MR Morphological, Functional and Relaxometry Features—A Pilot Study, <i>Cancers</i> , 14, 5866, (2022).	12	8.50	1	0.12
Emese Orban, Zsuzsanna Pap, Andreea Maria Micu, Remus Sebastian Sipos, Radu Fechete, Callus formation in albino Wistar rats after femur fracture assessed by visible spectroscopy, <i>Biochemical and Biophysical Research Communications</i> 634 168-174, (2022).	5	5.00	1	0.20
P. M. Purcea Lopes, D. Moldovan, R. Fechete, D. Prodan, C. R. Pop, A. M. Rotar, V. Popescu, Swelling and Antimicrobial Activity Characterization of a GO-Reinforced Gelatin—Whey Hydrogel, <i>Gels</i> , 9, 18 (2023).	7	6.00	2	0.33
Daniel Cadar, Daniela Lucia Manea, Elena Jumate, Florin Popa, Dumitrita Moldovan, Radu Fechete, Structural and dynamic characterization of two-component waterproof mortars by 1H NMR, FT-IR, mechanical and SEM investigations, <i>Construction and Building Materials</i> , 378, 131182 (2023).	6	5.50	0	0.00
R. I. Chelcea, D. Danis, Radu Fechete, Structural and Kinetic Characterization of Unexpired and Expired Drugs by Proton Nuclear Magnetic Resonance (1H NMR) Relaxometry and Fourier Transform Infrared (FT-IR) Spectroscopy,	3	3.00	1	0.33
Lavinia Raluca Dragan, David Andras, Radu Fechete, Fourier Transform Infrared (FT-IR) Spectroscopy and Proton Nuclear Magnetic Resonance (1H NMR) Relaxometry and Diffusometry for the Identification of Colorectal Cancer in	3	3.00	0	0.00
O Dinescu, E Orban, RS Sipos, R Fechete, Eficientizarea metodelor de evaluare a proprietăților țesutului osos, <i>Medic. ro</i> 153 (3) (2023).	4	4.00	0	0.00
Pompilia Mioara Purcea Lopes, Dumitrita Moldovan, Radu Fechete, Liviu Mare, Lucian Barbu-Tudoran, Niculina Sechel, Violeta Popescu, Characterization of a Graphene Oxide-Reinforced Whey Hydrogel as an Eco-Friendly Absorbent for	7	6.00	0	0.00

Note:

Coloanele A-F pot fi prezentate și comasat.

Numărul efectiv de autori este calculat conform formulelor din Anexa nr. 3, OM 6129/2016.

n , dacă $n \leq 5$; $(n + 5)/2$, dacă $5 < n \leq 15$; $(n + 15)/3$, dacă $15 < n \leq 75$ și $(n + 45)/4$, dacă $n > 75$.

Citările trebuie să fie în reviste științifice cu factor de impact care se regăsesc în InCites Journal Citation Reports sau în cărți

în edituri recunoscute Web of Science. Nu se iau în considerare citările provenind din articole care au ca autor sau