

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 colaborărilor mari	Capitole de cărți în edituri naționale sau alte edituri internaționale ca autor	Lucrări în extenso (cel puțin 3 pagini) publicate în Proceeding-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 criteriu 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
			$A_1 = \sum_i 4 / n_i^{ef}$	$A_2 = \sum_i 1 / n_i^{ef}$	$A_3 = \sum_i 0.5 / n_i^{ef}$	$A_4 = \sum_i 0.5 / n_i^{ef}$	$A_5 = \sum_i 0.2 / n_i^{ef}$	$A_6 = \sum_i 0.2 / n_i^{ef}$	$A_7 = \sum_i 3 / n_i^{ef}$	$A_8 = \sum_i 0.5 / n_i^{ef}$	$A_9 = \sum_i 0.5$	$A_{10} = \sum_i V_i / 100.000$	$A = \sum_{i=1}^{10} A_i$	$I = \sum_i AIS_i / n_i^{ef}$	$P = \sum_i AIS_i$	$C = \sum_i c_i / n_i^{ef}$	$h$	
Ioan BOTIZ	CS I	FIZICĂ	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70	9.60	9.23	19.22	390.69	21	47.55815

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

Criterii minimale	Ioan Botiz	conf/CS II
A	9.60	1
I	9.23	2
P	19.22	2
C	390.69	20
h	21	5
$T = A + P / 2 + I / 2 + C / 20 + h / 5$	47.558153	5

Titlu articol	CITARI								
	Autori	Jurnal	An	Vol	Pag	n (numar autori)	numar efectiv	numar citari (fara autocitari)	c/n_ef
The Influence of Protic Non-solvents Present in the Environment on Structure Formation of Poly( $\gamma$ -benzyl-L-glutamate) in Organic Solvents	I. Botiz, N. Grozev, H. Schlaad, G. Reiter	Soft Matter	2008	4	993	4	4.00	9	2.25
Morphological Instabilities of Polymers Crystals	N. Grozev, I. Botiz, G. Reiter	European Physical Journal E	2008	27	63	3	3.00	39	13.00
Rational Design of Nanostructured Hybrid Materials for Photovoltaics	I. Botiz, S. B. Darling	Materials Research Society Symposium Proceedings:	2009	1190	211	2	2.00	3	1.50
Crystallization in Diblock Copolymer Thin Films at Different Degrees of Supercooling	C. Darko, I. Botiz, G. Reiter, D. W. Breiby, J. W. Andreasen, S. V. Roth, D.-M. Smilgies, E. Metwalli, C. M. Papadakis	Physical Review E	2009	79	041802-1	9	7.00	15	2.14
Self-Assembly of Poly(3-hexylthiophene)-block-Polylactide Block Copolymer and Subsequent Incorporation of Electron Acceptor Material	I. Botiz, S. B. Darling	Macromolecules	2009	42	8211	2	2.00	117	58.50
Rational design of nanostructured hybrid materials for photovoltaics	S.B. Darling, I. Botiz, A.B. Martinson, S. Tepavcevic, S.J. Sibener, T. Rajh, N. Dimitrijevic	Abstracts of Papers of the American Chemical Society	2010	239	185	7	6.00	0	0.00
Optoelectronics Using Block Copolymers	I. Botiz, S. B. Darling	Materials Today	2010	13	42	2	2.00	134	67.00
Minimizing Lateral Domain Collapse in Etched Poly(3-hexylthiophene)-block-Polylactide Thin Films for Improved Optoelectronic Performance	I. Botiz, A. B. Martinson, S. B. Darling	Langmuir	2010	26	8756	3	3.00	39	13.00
Polythiophene-b-polyfluorene and Polythiophene-b-poly(fluorene-co-benzo-thiadiazole): Insights into the Self-Assembly of All-Conjugated Block Copolymers	R. Verduzco, I. Botiz, D. L. Pickel, S. M. Kilbey II, K. Hong, E. Dimasi, S. B. Darling	Macromolecules	2011	44	530	7	6.00	115	19.17
Processes of Ordered Structure Formation in Polypeptide Thin Film Solutions	I. Botiz, H. Schlaad, G. Reiter	Advances in Polymer Science: Self-Organized	2011	242	117	3	3.00	0	0.00
Optoelectronic Properties and Charge Transfer in Donor-Acceptor All Conjugated Diblock Copolymers	I. Botiz, R. Schaller, R. Verduzco, S. B. Darling	Journal of Physical Chemistry C	2011	115	9260	4	4.00	63	15.75
Synthesis and self-assembly of polythiophene-b-poly(fluorene-co-benzothiadiazole) block copolymers	R. Verduzco, I. Botiz, D.L. Pickel, S.M. Kilbey, K. Hong, E. DiMasi, S.B. Darling	Abstracts of Papers of the American Chemical Society	2011	242	142	7	6.00	0	0.00
Controllable processes for generating large single crystals of poly(3-hexylthiophene)	K. Rahimi, I. Botiz, N. Stingelin, N. Kayunkid, M. Sommer, F. P. V. Koch, H. Nguyen, O. Coulembier, P. Dubois, M. Brinkmann, G. Reiter	Angewandte Chemie International Edition	2012	51	11131	11	8.00	157	19.63
Crystallization of poly( $\gamma$ -benzyl L-glutamate) in thin film solutions: Structure and pattern formation	K. Jahanshahi, I. Botiz, R. Reiter, R. Thomann, B. Heck, R. Shokri, W. Stille, G. Reiter	Macromolecules	2013	46	1470	8	6.50	11	1.69
Reversibly slowing dewetting of conjugated polymers by light	I. Botiz, P. Freyberg, N. Stingelin, A.C.M. Yang, G. Reiter	Macromolecules	2013	46	2352	5	5.00	21	4.20
Massive Enhancement of Photoluminescence through Dewetting	P. W. Lee, W.-C. Li, B.-J. Chen, C.-W. Yang, C.-C. Chang, I. Botiz, G. Reiter, Y. T. Chen, T. L. Lin, J. Tang, J.-H. Jou, A. C.-M. Yang	ACS Nano	2013	7	6658	10	7.50	26	3.47
Reversible nucleation and growth of poly( $\gamma$ -benzyl-L-glutamate) hexagonal columnar liquid crystals by addition and removal of a protic non-solvent	K. Jahanshahi, I. Botiz, R. Reiter, H. Scherer, W. Stille, G. Reiter	Crystal Growth & Design	2013	13	4490	5	5.00	1	0.20
Light absorption of poly(3-hexylthiophene) single crystals	K. Rahimi, I. Botiz, J. O. Agumba, S. Motamen, N. Stingelin, G. Reiter	RSC Advances	2014	4	11121	6	5.50	84	15.27

Influence of Molecular Conformations and Microstructure on the Optoelectronic Properties of Conjugated Polymers	I. Botiz, Natalie Stingelin	Materials	2014	7	2273	2	2.00	79	39.50
Enhancing the photoluminescence emission of conjugated MEH-PPV by light processing	I. Botiz, P. Freyberg, C. Leordean, A.-M. Gabudean, S. Astilean, A. C.-M. Yang, N. Stingelin	ACS Applied Materials & Interfaces	2014	6	4974	7	6.00	28	4.67
Anisotropic Charge Transport in Large Single Crystals of $\pi$ -conjugated Organic Molecules	W. Hourani, K. Rahimi, I. Botiz, F.P.V. Koch, G. Reiter, P. Lienerth, T. Heiser, J.-L. Bubendorff, L. Simon	Nanoscale	2014	6	4774	9	7.00	33	4.71
Regio-Regular Oligo and Poly(3-hexyl thiophene): Precise Structural Markers from the Vibrational Spectra of Oligomer Single Crystals	L. Brambilla, M. Tommasini, I. Botiz, K. Rahimi, J.O. Agumba, N. Stingelin, G. Zerbi	Macromolecules	2014	47	6730	7	6.00	36	6.00
Emission properties of MEH-PPV in thin films simultaneously illuminated and annealed at different temperatures	I. Botiz, P. Freyberg, C. Leordean, A.-M. Gabudean, S. Astilean, A. C.-M. Yang, N. Stingelin	Synthetic Metals	2015	199	33	7	6.00	12	2.00
Fabrication of a highly active and cost effective SERS plasmonic substrate by electrophoretic deposition of gold nanoparticles on the DVD template	C. Leordean, B. Marta, A.-M. Gabudean, M. Focsan, I. Botiz, S. Astilean	Applied Surface Science	2015	349	190	6	5.50	16	2.91
Altering the Emission Properties of Conjugated Polymers	I. Botiz, S. Astilean, N. Stingelin	Polymer International	2016	65	157	3	3.00	12	4.00
Efficient etching-free transfer of high quality, large-area CVD grown graphene onto polyvinyl alcohol films	B. Marta, C. Leordean, T. Istvan, I. Botiz, S. Astilean	Applied Surface Science	2016	363	613	5	5.00	23	4.60
Detection of environmental pollutants by surface-enhanced Raman spectroscopy	M. Potara, C. Farcau, I. Botiz, S. Astilean	Advanced Environmental Analysis: Applications of	2016	1	479	4	4.00	3	0.75
Structure Control in Polymeric Semiconductors Applied to the Manipulation of Light-Emission Properties	I. Botiz, C. Leordean, N. Stingelin	Semiconducting Polymers: Controlled Synthesis and	2017	N/A	187	3	3.00	0	0.00
Convective self-assembly of $\pi$ -conjugated oligomers and polymers	I. Botiz, M-A. Codescu, C. Farcau, C. Leordean, S. Astilean, C. Silva, N. Stingelin	Journal of Materials Chemistry C	2017	5	2513	7	6.00	7	1.17
Polymer-coated plasmonic nanoparticles for environmental remediation: Synthesis, functionalization, and properties	M. Potara, M. Focsan, A-M. Craciun, I. Botiz, S. Astilean	New Polymer Nanocomposites for	2018	N/A	361	5	5.00	10	2.00
Altering the optoelectronic properties of neat and blended conjugated polymer films by controlling the process of film deposition	O. Todor-Boer, I. Petrovai, R. Tarcan, A-M. Craciun, L. David, S. B. Angyrus, S. Astilean, I. Botiz	Journal of Optoelectronics & Advanced Materials	2019	21	367	8	6.50	0	0.00
Enhancing Photoluminescence Quenching in Donor-Acceptor PCE11:PPCBMB Films through the Optimization of Film Microstructure	O. Todor-Boer, I. Petrovai, R. Tarcan, A. Vulpoi, L. David, S. Astilean, I. Botiz	Nanomaterials	2019	9	1757-1	7	6.00	4	0.67
Advanced nanostructures for microbial contaminants detection by means of spectroscopic methods	M. Potara, A. Campu, D. Maniu, M. Focsan, I. Botiz, S. Astilean	Advanced Nanostructures for Environmental Health	2020	N/A	347	6	5.50	3	0.55
Control of microstructure in polymer: Fullerene active films by convective self-assembly	O. Todor-Boer, I. Petrovai, R. Tarcan, L. David, S. Astilean, I. Botiz	Thin Solid Films	2020	697	137780-1	6	5.50	0	0.00
Characterization and analysis of RGO thin films with application on colon-26 tumor carcinoma-bearing mouse cells	I. M. Handrea-Dragan, R. Tarcan, E. Licarete, S. Astilean, I. Botiz	International Journal of Medical Dentistry	2020	24	307	5	5.00	0	0.00
Reduced graphene oxide today	R. Tarcan, O. Todor-Boer, I. Petrovai, C. Leordean, S. Astilean, I. Botiz	Journal of Materials Chemistry C	2020	8	1198	6	5.50	311	56.55
A new, fast and facile synthesis method for reduced graphene oxide in N,N-dimethylformamide	R. Tarcan, M. Handrea-Dragan, O. Todor-Boer, I. Petrovai, C. Farcau, M. Rusu, A. Vulpoi, M. Todea, S. Astilean, I. Botiz	Synthetic Metals	2020	269	116576-1	10	7.50	9	1.20
Multifunctional Structured Platforms: From Patterning of Polymer-Based Films to Their Subsequent Filling with Various Nanomaterials	M. Handrea-Dragan, I. Botiz	Polymers	2021	13	445-1	2	2.00	9	4.50
Antimicrobial Polymeric Structures Assembled on Surfaces	I. Babutan, A.-D. Lucaci, I. Botiz	Polymers	2021	13	1552-1	3	3.00	12	4.00

Providing a Window into the Phase Behavior of Semiconducting Polymers	I. Botiz, Marlow M. Durbin, Natalie Stingelin	Macromolecules	2021	54	5304	3	3.00	7	2.33
Understanding Hierarchical Spheres-in-grating Assembly for Bio-Inspired Colouration	S. Chen, B. Haehnle, X. Van der Laan, A. J. C. Kuehne, I. Botiz, P. N. Stavrinou, N. Stingelin	Materials Horizons	2021	8	2230	7	6.00	2	0.33
Pluronic stabilized conjugated polymer nanoparticles for NIR fluorescence imaging and dual phototherapy applications	T. Nagy-Simon, O. Diaconu, M. Focsan, A. Vulpoi, I. Botiz, A.-M. Craciun	Journal of Molecular Structure	2021	1234	130931-1	6	5.50	6	1.09
Halide-Metal complexes at plasmonic interfaces create new decay pathways for plasmons and excited molecules	Andrei Stefancu, Oana M. Biro, Otto Todor-Boer, Ioan Botiz, Emiliano Cortés, Nicolae Leopold	ACS Photonics	2022	9	895	6	5.50	7	1.27
Spheres-In-Grating Assemblies with Altered Photoluminescence and Wetting Properties	I. M. Handrea-Dragan, A. Vulpoi, C. Farcau, I. Botiz	Nanomaterials	2022	12	1084-1	4	4.00	0	0.00
Insight and recent advances into the role of topography on the cell differentiation and proliferation on biopolymeric surfaces	R. Tudureanu, I. M. Handrea-Dragan, S. Boca, I. Botiz	International Journal of Molecular Sciences	2022	23	7731	4	4.00	15	3.75
Patterning at the micro/nano-scale: polymeric scaffolds for medical diagnostic and cell-surface interaction applications.	Handrea-Dragan, I. Botiz, A.-S. Tatar, S. Boca	Colloids and Surfaces B: Biointerfaces	2022	218	112730	4	4.00	7	1.75
Development of PMMA/RGO Composite Films as Thermal Interface Materials	R. Tarcan, M. Handrea-Dragan, C.-I. Leordean, R. C. Cioban, G.-Z. Kiss, D. Zaharie-Butucel, C. Farcau, A. Vulpoi, S. Simon, I. Botiz	Journal of Applied Polymer Science	2022	139	e53238	10	7.50	0	0.00
Prominent processing techniques to manipulate semiconducting polymer microstructure.	I. Botiz	Journal of Materials Chemistry C	2023	11	364	1	1.00	3	3.00
Growth of Hybrid Perovskite Crystals from CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> -xCl <sub>x</sub> Solutions Subjected to Constant Solvent Evaporation Rates	I. Petrovai, O. Todor-Boer, L. David, I. Botiz	Materials	2023	16	2625	4	4.00	1	0.25
Self-assembly of block copolymers on surfaces exposed to space-confined solvent vapor annealing	I. Babutan, O. Todor-Boer, L. I. Atanase, A. Vulpoi, S. Simon, I. Botiz	Polymer	2023	273	125881	6	5.50	1	0.18
Self-assembly of block copolymers in thin films swollen-rich in solvent vapors	I. Babutan, O. Todor-Boer, L. I. Atanase, A. Vulpoi, I. Botiz	Polymers	2023	15	1900	5	5.00	1	0.20
Phonon-Assisted Tunneling through Quantum Dot Systems Connected to Majorana Bound States	L. Máthé, Z. Kovács-Krausz, I. Botiz, I. Grosu, K. El Anouz, A. El Allati, L. P. Zârbo	Nanomaterials	2023	13	1616	7	6.00	0	0.00
Crystallization of Poly(ethylene oxide)-Based Triblock Copolymers in Films Swollen-Rich in Solvent Vapors	I. Babutan, O. Todor-Boer, L. I. Atanase, A. Vulpoi, I. Botiz	Coatings	2023	13	918	5	5.00	0	0.00
Generation of Hybrid Lead Halide CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> -xCl <sub>x</sub> Perovskite Crystals via Convective Self-Assembly	I. Petrovai, O. Todor-Boer, A. Vulpoi, L. David, I. Botiz	Coatings	2023	13	1130	5	5.00	0	0.00
P-018 Structural and biocompatibility analysis of gold nanoparticle integrated polymeric scaffolds for infertility diagnosis	B.-A. Andone Rotaru, M. Girlovanu, A. Vulpoi, I. Botiz, S. Boca	Human Reproduction	2023	38	dead093.385	5	5.00	0	0.00
State-of-the-art and future perspectives in infertility diagnosis: Conventional versus nanotechnology-based assays	B.-A. Andone, I. M. Handrea-Dragan, I. Botiz, S. Boca	Nanomedicine: Nanotechnology, Biology and Medicine	2023	54	102709	4	4.00	0	0.00
Single Crystals of Established Semiconducting Polymers	I. Botiz	Polymers	2024	16	761	1	1.00	0	0.00
Processing of Thin Films Based on Cellulose Nanocrystals and Biodegradable Polymers by Space-Confined Solvent Vapor Annealing and Morphological Characteristics	L. Senila, I. Botiz, C. Roman, D. Simedru, M. Dan, I. Kacso, M. Senila, O. Todor-Boer	Materials	2024	17	1685	8	6.50	0	0.00
Morphological Characteristics of Biopolymer Thin Films Swollen-Rich in Solvent Vapors	M. Băbuțan, I. Botiz	Biomimetics	2024	9	396	2	2.00	0	0.00
Large Enhancement of Photoluminescence Obtained in Thin Polyfluorene Films of Optimized Microstructure	O. Todor-Boer, C. Farcau, I. Botiz	Polymers	2024	16	2278	3	3.00	0	0.00
Synthesis of concentrated aqueous dispersions of reduced graphene oxide	R. Tarcan, I. M. Handrea-Dragan, I. Botiz	Journal of Optoelectronics & Advanced Materials	2024	26	413	3	3.00	0	0.00



## Activitatea didactica si profesionala - Ioan BOTIZ

### 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
G. Reiter, I. Botiz, L. Graveleau, N. Grozev, K. Albrecht, A. Mourran, M. Möller. Invited book chapter Morphologies of Polymer Crystals in Thin Films in Lecture Notes in Physics: Progress in Understanding of Polymer Crystallization, Springer, Eds. G. Reiter, G.R. Strobl, ISBN: 978-3-540-47305-3, vol. 714, p. 179 (2007).	7	6	0.17
I. Botiz, H. Schlaad, G. Reiter. Invited book chapter Processes of Ordered Structure Formation in Polypeptide Thin Film Solutions in Advances in Polymer Science: Self-Organized Nanostructures of Amphiphilic Block Copolymers II, Springer, Eds. Axel H.E. Müller, O. Borisov, ISBN: 978-3-642-22296-2, vol. 242, p. 117 (2010).	3	3	0.33
M. Potara, C. Farcau, I. Botiz, S. Astilean. Invited book chapter Detection of environmental pollutants by surface- enhanced Raman spectroscopy in Advanced Environmental Analysis: Applications of Nanomaterials, Royal Society of Chemistry, Eds. C. M. Hussain, B. Kharisov, ISBN: 978-1-78262-144-7, vol. 1, p. 479 (2016).	4	4	0.25
I. Botiz, C. Leordean, N. Stingelin. Invited book chapter Structure Control in Polymeric Semiconductors Applied to the Manipulation of Light-Emission Properties in Semiconducting Polymers: Controlled Synthesis and Microstructure, Royal Society of Chemistry, Ed. C. Luscombe, ISBN: 978-1-78262-034-1, p. 187 (2016).	3	3	0.33
I. Botiz, S. B. Darling: "Optoelectronics Using Block Copolymers. Invited review in Materials Today 13, 42 (2010).	2	2	0.50

M. Potara, M. Focsan, A-M. Craciun, I. Botiz, S. Astilean. Invited book chapter Polymer-coated plasmonic nanoparticles for environmental remediation: synthesis, functionalization and properties in New Polymer Nanocomposites for Environmental Remediation, Elsevier, Eds. C. M. Hussain, A. K. Mishra, ISBN: 978-0-12-811033-1, p. 361 (2018).	5	5	0.20
I. Botiz, N. Stingelin. Influence of Molecular Conformations and Microstructure on the Optoelectronic Properties of Conjugated Polymers. Invited review in Materials 7, 2273 (2014).	2	2	0.50
M. Potara, A. Campu, D. Maniu, M. Focsan, I. Botiz, S. Astilean. Invited book chapter Advanced nanostructures for microbial contaminants detection by means of spectroscopic methods in Advanced Nanostructures for Environmental Health, Elsevier, Eds. L. Baia, Z. Pap, K. Hernadi, M. Baia, ISBN: 9780128158821, p. 347 (2020).	6	5.5	0.18
I. Botiz, S. Astilean, N. Stingelin. Altering the Emission Properties of Conjugated Polymers. Invited review in Polymer International 65, 157 (2016).	3	3	0.33
R. Tarcan, O. Todor-Boer, I. Petrovai, C. Leordean, S. Astilean, I. Botiz. Reduced graphene oxide today. Invited review in Journal of Materials Chemistry C 8, 1198 (2020).	6	5.5	0.18
M. Handrea-Dragan, I. Botiz. Multifunctional Structured Platforms: From Patterning of Polymer-Based Films to Their Subsequent Filling with Various Nanomaterials. Invited review in Polymers 13, 445 (2021).	2	2	0.50
I. Babutan, A.-D. Lucaci, I. Botiz. Antimicrobial Polymeric Structures Assembled on Surfaces. Invited review in Polymers 13, 1552 (2021).	3	3	0.33

I. Botiz, Marlow M. Durbin, Natalie Stingelin. Providing a Window into the Phase Behavior of Semiconducting Polymers. Invited review in <i>Macromolecules</i> 54, 5304 (2021)	3	3	0.33
R. Tudureanu, I. M. Handrea-Dragan, S. Boca, I. Botiz. Insight and recent advances into the role of topography on the cell differentiation and proliferation on biopolymeric surfaces. Invited review in <i>International Journal of Molecular Sciences</i> 23, 7731 (2022).	4	4	0.25
I. M. Handrea-Dragan, I. Botiz, A.-S. Tatar, S. Boca. Patterning at the micro/nano-scale: polymeric scaffolds for medical diagnostic and cell-surface interaction applications. <i>Colloids and Surfaces B: Biointerfaces</i> 218, 112730 (2022).	4	4	0.25
I. Botiz. Prominent processing techniques to manipulate semiconducting polymer microstructure. <i>Journal of Materials Chemistry C</i> 11, 364 (2023).	1	1	1.00
B.-A. Andone, I. M. Handrea-Dragan, I. Botiz, S. Boca. State-of-the-art and future perspectives in infertility diagnosis: Conventional versus nanotechnology-based assays. <i>Nanomedicine: Nanotechnology, Biology and Medicine</i> 54, 102709 (2023).	4	4	0.25
I. Botiz. Single Crystals of Established Semiconducting Polymers. <i>Polymers</i> 16, 761 (2024).	1	1	1.00
<b>Total 2</b>			6.90



<b>3. Cărți în edituri internaționale recunoscute Web of Science în calitate de editor</b>			
Date identificare	Numar autori	Numar efectiv	A3
<b>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</b>			
Date identificare	Numar autori	Numar efectiv	A4
<b>5. Capitle de cărți în edituri naționale sau alte edituri internaționale ca autor</b>			
Date identificare	Numar autori	Numar efectiv	A5
<b>6. Lucrări în extenso (cel puțin 3 pagini) publicate în Proceedings-uri indexate ISI</b>			
Date identificare	Numar autori	Numar efectiv	A6
<b>7. Brevete de invenție internaționale acordate</b>			
Date identificare	Numar autori	Numar efectiv	A7
<b>8. Brevete de invenție naționale acordate</b>			
Date identificare	Numar autori	Numar efectiv	A8
<b>9. Director/ responsabil/ coordonator pentru programe de studii, programe de formare continuă, proiecte educaționale și proiecte de infrastructură (proiectele de cercetare se exclud)</b>			
Date identificare			A9
<b>10. Director/ responsabil pentru proiecte de cercetare in valoare euro câștigate prin competiție națională sau internațională</b>			
Date identificare	Suma totala in Euro		A10
RU-TE 2014 ILLUM2LUM	125000		1.25
PED 2019 METAL	145000		1.45
			0.00
			0.00
			0.00
Total 10			2.70

<b>TOTAL</b>	<b>9.60</b>
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**Note:**

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
Production of Radioisotopes Using Isotopic Neutron Sources	L. Daraban, I. Botiz	Studia Universitatis Babes-Bolyai Physica	2004	49	3	0	2	2.00	0	0.00	0.00
The Influence of Protic Non-solvents Present in the Environment on Structure Formation of Poly( $\gamma$ -benzyl-L-glutamate) in Organic Solvents	I. Botiz, N. Grozev, H. Schlaad, G. Reiter	Soft Matter	2008	4	993	1	4	4.00	1.994	0.50	1.99
Morphological Instabilities of Polymers Crystals	N. Grozev, I. Botiz, G. Reiter	European Physical Journal E	2008	27	63	0	3	3.00	1.093	0.36	0.00
Crystallization in Diblock Copolymer Thin Films at Different Degrees of Supercooling	C. Darko, I. Botiz, G. Reiter, D. W. Breiby, J. W. Andreasen, S. V. Roth, D.-M. Smilgies, E. Metwalli, C. M. Papadakis	Physical Review E	2009	79	041802-1	0	9	7.00	1.308	0.19	0.00
Self-Assembly of Poly(3-hexylthiophene)-block-Polylactide Block Copolymer and Subsequent Incorporation of Electron Acceptor Material	I. Botiz, S. B. Darling	Macromolecules	2009	42	8211	1	2	2.00	1.335	0.67	1.34
Minimizing Lateral Domain Collapse in Etched Poly(3-hexylthiophene)-block-Polylactide Thin Films for Improved Optoelectronic Performance	I. Botiz, A. B. Martinson, S. B. Darling	Langmuir	2010	26	8756	1	3	3.00	1.248	0.42	1.25
Polythiophene-b-polyfluorene and Polythiophene-b-poly(fluorene-co-benzothiadiazole): Insights into the Self-Assembly of All-Conjugated Block Copolymers	R. Verduzco, I. Botiz, D. L. Pickel, S. M. Kilbey II, K. Hong, E. Dimasi, S. B. Darling	Macromolecules	2011	44	530	0	7	6.00	1.24	0.21	0.00
Processes of Ordered Structure Formation in Polypeptide Thin Film Solutions	I. Botiz, H. Schlaad, G. Reiter	Advances in Polymer Science: Self-Organized Nanostructures of	2011	242	117	1	3	3.00	1.962	0.65	1.96
Optoelectronic Properties and Charge Transfer in Donor-Acceptor All Conjugated Diblock Copolymers	I. Botiz, R. Schaller, R. Verduzco, S. B. Darling	Journal of Physical Chemistry C	2011	115	9260	1	4	4.00	1.342	0.34	1.34

Controllable processes for generating large single crystals of poly(3-hexylthiophene)	K. Rahimi, I. Botiz, N. Stingelin, N. Kayunkid, M. Sommer, F. P. V. Koch, H. Nguyen, O. Coulembier, P. Dubois, M. Brinkmann, G. Reiter	Angewandte Chemie International Edition	2012	51	11131	0	11	8.00	3.523	0.44	0.00
Crystallization of poly( $\gamma$ -benzyl L-glutamate) in thin film solutions: Structure and pattern formation	K. Jahanshahi, I. Botiz, R. Reiter, R. Thomann, B. Heck, R. Shokri, W. Stille, G. Reiter	Macromolecules	2013	46	1470	0	8	6.50	1.181	0.18	0.00
Reversibly slowing dewetting of conjugated polymers by light	I. Botiz, P. Freyberg, N. Stingelin, A.C.M. Yang, G. Reiter	Macromolecules	2013	46	2352	1	5	5.00	1.181	0.24	1.18
Massive Enhancement of Photoluminescence through Dewetting	P. W. Lee, W.-C. Li, B.-J. Chen, C.-W. Yang, C.-C. Chang, I. Botiz, G. Reiter, Y. T. Chen, T. L. Lin, J. Tang, J.-H. Jou, A. C.-M. Yang	ACS Nano	2013	7	6658	0	10	7.50	4.034	0.54	0.00
Reversible nucleation and growth of poly( $\gamma$ -benzyl-L-glutamate) hexagonal columnar liquid crystals by addition and removal of a protic non-solvent	K. Jahanshahi, I. Botiz, R. Reiter, H. Scherer, W. Stille, G. Reiter	Crystal Growth & Design	2013	13	4490	0	5	5.00	0.88	0.18	0.00
Light absorption of poly(3-hexylthiophene) single crystals	K. Rahimi, I. Botiz, J. O. Agumba, S. Motamen, N. Stingelin, G. Reiter	RSC Advances	2014	4	11121	1	6	5.50	0.746	0.14	0.75
Enhancing the photoluminescence emission of conjugated MEH-PPV by light processing	I. Botiz, P. Freyberg, C. Leordean, A.-M. Gabudean, S. Astilean, A. C.-M. Yang, N. Stingelin	ACS Applied Materials & Interfaces	2014	6	4974	1	7	6.00	1.371	0.23	1.37
Anisotropic Charge Transport in Large Single Crystals of $\pi$ -conjugated Organic Molecules	W. Hourani, K. Rahimi, I. Botiz, F.P.V. Koch, G. Reiter, P. Lienerth, T. Heiser, J.-L. Bubendorff, L.	Nanoscale	2014	6	4774	0	9	7.00	1.739	0.25	0.00
Regio-Regular Oligo and Poly(3-hexyl thiophene): Precise Structural Markers from the Vibrational Spectra of Oligomer Single Crystals	L. Brambilla, M. Tommasini, I. Botiz, K. Rahimi, J.O. Agumba, N. Stingelin, G. Zerbi	Macromolecules	2014	47	6730	0	7	6.00	1.278	0.21	0.00
Emission properties of MEH-PPV in thin films simultaneously illuminated and annealed at different temperatures	I. Botiz, P. Freyberg, C. Leordean, A.-M. Gabudean, S. Astilean, A. C.-M. Yang, N. Stingelin	Synthetic Metals	2015	199	33	1	7	6.00	0.408	0.07	0.41
Fabrication of a highly active and cost effective SERS plasmonic substrate by electrophoretic deposition of gold nanoparticles on the DVD template	C. Leordean, B. Marta, A.-M. Gabudean, M. Focsan, I. Botiz, S. Astilean	Applied Surface Science	2015	349	190	0	6	5.50	0.574	0.10	0.00

Efficient etching-free transfer of high quality, large-area CVD grown graphene onto polyvinyl alcohol films	B. Marta, C. Leordean, T. Istvan, I. Botiz, S. Astilean	Applied Surface Science	2016	363	613	0	5	5.00	0.589	0.12	0.00
Convective self-assembly of $\pi$ -conjugated oligomers and polymers	I. Botiz, M-A. Codescu, C. Farcau, C. Leordean, S. Astilean, C. Silva, N. Stingelin	Journal of Materials Chemistry C	2017	5	2513	1	7	6.00	1.119	0.19	1.12
Altering the optoelectronic properties of neat and blended conjugated polymer films by controlling the process of film deposition	O. Todor-Boer, I. Petrovai, R. Tarcan, A-M. Craciun, L. David, S. B. Angyrus, S. Astilean, I. Botiz	Journal of Optoelectronics & Advanced Materials	2019	21	367	1	8	6.50	0.064	0.01	0.06
Enhancing Photoluminescence Quenching in Donor-Acceptor PCE11:PPCBMB Films through the Optimization of Film Microstructure	O. Todor-Boer, I. Petrovai, R. Tarcan, A. Vulpoi, L. David, S. Astilean, I. Botiz	Nanomaterials	2019	9	1757-1	1	7	6.00	0.671	0.11	0.67
Control of microstructure in polymer: Fullerene active films by convective self-assembly	O. Todor-Boer, I. Petrovai, R. Tarcan, L. David, S. Astilean, I. Botiz	Thin Solid Films	2020	697	137780-1	1	6	5.50	0.350	0.06	0.35
Characterization and analysis of RGO thin films with application on colon-26 tumor carcinoma-bearing mouse cells	I. M. Handrea-Dragan, R. Tarcan, E. Licarete, S. Astilean, I. Botiz	International Journal of Medical Dentistry	2020	24	307	1	5	5.00	0.024	0.00	0.02
A new, fast and facile synthesis method for reduced graphene oxide in N,N-dimethylformamide	R. Tarcan, M. Handrea-Dragan, O. Todor-Boer, I. Petrovai, C. Farcau, M. Rusu, A. Vulpoi, M. Todea, S.	Synthetic Metals	2020	269	116576-1	1	10	7.50	0.438	0.06	0.44
Understanding Hierarchical Spheres-in-grating Assembly for Bio-Inspired Colouration	S. Chen, B. Haehnle, X. Van der Laan, A. J. C. Kuehne, I. Botiz, P. N. Stavrinou, N. Stingelin	Materials Horizons	2021	8	2230	0	7	6.00	3.105	0.52	0.00
Pluronic stabilized conjugated polymer nanoparticles for NIR fluorescence imaging and dual phototherapy applications	T. Nagy-Simon, O. Diaconu, M. Focsan, A. Vulpoi, I. Botiz, A.-M. Craciun	Journal of Molecular Structure	2021	1234	130931-1	0	6	5.50	0.315	0.06	0.00
Halide-Metal complexes at plasmonic interfaces create new decay pathways for plasmons and excited molecules	A. Stefanu, O. M. Biro, O. Todor-Boer, I. Botiz, E. Cortés, N. Leopold	ACS Photonics	2022	9	895	0	6	5.50	1.893	0.34	0.00
Spheres-In-Grating Assemblies with Altered Photoluminescence and Wetting Properties	I. M. Handrea-Dragan, A. Vulpoi, C. Farcau, I. Botiz	Nanomaterials	2022	12	1084-1	1	4	4.00	0.707	0.18	0.71
Development of PMMA/RGO Composite Films as Thermal Interface Materials	R. Tarcan, M. Handrea-Dragan, C.-I. Leordean, R. C. Cioban, G.-Z. Kiss, D. Zaharie-Butucel, C. Farcau, A. Vulpoi, S. Simon, I. Botiz	Journal of Applied Polymer Science	2022	139	e53238	1	10	7.50	0.363	0.05	0.36



