

Fișă de verificare

privind îndeplinirea standardelor minime necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și al gradelor profesionale de cercetare-dezvoltare, a calității de conducător de doctorat și a atestatului de abilitare, conform metodologiei publicate în Ordinului Ministrului Educației Naționale și Cercetării Științifice nr. 6129/20.12.2016

Comisia: CNATDCU Fizică

Candidat: CS I. dr. habil. Monica Olivia FOCSAN (ORCID: 0000-0001-6735-5146) -pentru ocuparea postului de *conferențiar universitar*, POZIȚIA 11 Disciplinele postului Complemente de spectroscopie moleculară; Practică de cercetare I; Aparatură medicală; Aplicații tehnologice ale laserilor. Biofotonică; Aplicațiile laserilor în tehnologie și biofotonică

Criterii	Criterii minime conferențiar	Realizat
1. Activitate didactică și profesională (A)	$A \geq 1$	A=11.66
2. Activitatea de cercetare 2.1 Articole științifice originale în extenso ca autor (I) 2.2. Articole științifice originale în extenso ca și prin autor sau autor correspondent (P)	I ≥ 2 P ≥ 2	I= 11.39 P=26.091
3. Recunoașterea impactului activității 3.1 Citări în reviste științifice în WOS (se exclud autocitarile) (C) 3.2 Indicele Hirsh (h)	C ≥ 20 h ≥ 5	C=337,585 h=26
TOTAL PUNCTAJ CNATDCU (T, T=A+P/2+I/2+C /20 +H/5)	T ≥ 5	T = 52.48

Activitatea didactica si profesionala

Tipul activitatilor	Subcapitol	N_autori	ni_ef	Ai	Explicatii
1. Carti in edituri internationale recunoscute Web of Science in calitate de autor	1.1		0.00	0.00	
	1.2		0.00	0.00	
	Total:		0.00		
2. Capitole de carti in edituri internationale recunoscute Web of Science in calitate de autor/Review-uri in reviste cotate ISI	2.1	5	5.00	0.20	capitol carte: M. Potara, M. Focsan , A-M. Craciun, I. Botiz, S. Astilean: <i>Polymer-coated plasmonic nanoparticles for environmental remediation: synthesis, functionalization and properties</i> , chapter in New Polymer Nanocomposites for Environmental Remediation, eds. C. M. Hussain and M. Ajay, Elsevier, eds. C. M. Hussain and M. Ajay, Elsevier, 2018, Pages 361-387, ISBN:9780128110331, autor principal
	2.2	5	5.00	0.20	article review , A M Craciun, M Focsan , K Magyari, A Vulpoi, Zsolt Pap, Surface Plasmon Resonance or Biocompatibility, article review, Materials 10 836 (2017) 1-37, autor principal
	2.3	6	5.50	0.18	capitol carte: M. Potara, A. Campu, D. Maniu, M. Focsan , I. Botiz, S. Astilean, <i>Advanced nanostructures for microbial contaminants detection by means of spectroscopic methods</i> , book chapter in Advanced Nanostructures for Environmental Health, editors L. Baia, Z. Pap, M. Baia and K. Hernadi, Elsevier Inc (2020) 347 - 384, ISBN: 978-0-12-815882-, autor principal
	2.4	7	6.00	0.17	article review , D. R. Lazar, F. L. Lazar, C. Homorodean, C. Cainap, M. Focsan , S. Cainap, D. M. Olinic, <i>High-Sensitivity Troponin: A Review on Characteristics, Assessment, and Clinical Implications</i> , Disease Markers, 2022, 9713326.
	2.5	4	4.00	0.25	article review , R. Ghiman, R. Pop, D. Rugina, M. Focsan , <i>Recent progress in preparation of microcapsules with tailored structures for bio-medical applications</i> , Journal of Molecular Structure 1248, 2022, 131366
	2.6	6	5.50	0.18	article review , A. Campu, I. Muresan, A-M. Craciun, S. Cainap, S. Astilean, M Focsan* , <i>Cardiac Troponin Biosensor Designs: Current Developments and Remaining Challenges</i> , International Journal of Molecular Sciences, 23(14), 2022, 7728 (*corresponding author, IF 6.208).
	2.7	4	4.00	0.25	article review , R. Borlan, M. Focsan* , D. Maniu, S. Astilean, <i>Interventional NIR Fluorescence Imaging of Cancer: Review on Next Generation of Dye-Loaded Protein-Based Nanoparticles for Real-Time Feedback During Cancer Surgery</i> , International Journal of Nanomedicine, 16, 2021, 2147–2171 (*corresponding author, IF 7.033).
	2.8	9	7.00	0.14	capitol carte: V. Sprincean, A. Chirita, L. Leontie, S. Astilean, M. Focsan , A Craciun, A. Paladi, V. Audruh, F. Paladi, Monitoring and Protection of Critical Infrastructure by Unmanned Systems, Advanced Physical Technologies with the UVS Application in Environmental Security, IOP, 2023
	Total:			1.57	

3. Carti in edituri internationale recunoscute Web of Science in calitate de editor	3.1	4	4.00	0.13	Carte: Edited by V. Chis, M. Focsan , M. de la Chapelle, R. Fausto, Journal of Molecular Structure Elsevier, Special Issue <i>Bridging molecules and nanoparticles the way from optical spectroscopy to cancer therapy</i> , vol 1254F1, 2022.
	Total:			0.13	
4. Carti, manuale, indrumare de laborator in edituri nationale sau alte edituri internationale ca autor, note interne, prezentari sustinute pentru aprobarea analizelor de date in	4.1	1	1.00	0.50	Carte: M. Focsan, Laser Microfabrication of Proteins for Biological Applications, Monica Focsan, Editura Alma Mater, 2013, ISBN 978-606-504-164-6
	Total:			0.50	
5. Capitole de carti in edituri nationale sau alte edituri internationale ca autor	5.1	4	4.00	0.05	F. Toderas, M. Iosin , M. Baia and S. Astilean, Probing the interaction of bovine serum albumin (BSA) and gold nanoparticle, Progress in nanoscience and nanotechnologies, Editura Academiei Romane (2007) 215-221, ISBN 978-973-27-1576-5,
	5.2	4	4.00	0.05	M. Iosin , S. Astilean, O. Stephan, PL Baldeck, Cross-linked protein nanostructures fabricated by two-photon laser induced photochemistry, Editura Academiei Romane (2007) 102, ISBN 978-973-27-1576-5
	5.3	8	6.50	0.03	P.L. Baldeck, J. Bosson, M. Iosin , C.-L. Lin, N. Tosa, L. Vurtz, G. Vitrant and O. Stephan, 3D Laser Micro-Structuration of Polymers, Metals and Biomaterials by Two-Photon Induced Photochemistry , Trends in Optics and Photonics (2009) 3-8, ISBN 978-81-908188-0-3.
	5.4	4	4.00	0.05	M. Iosin , F. Toderas, P. Baldeck, S. Astilean, Investigation of the binding constant of biocompatible gold nanoparticles to Bovine Serum Albumine using fluorescence and LSPR spectroscopy , New applications of micro and nanotechnologies, Editura Academiei Romane (2009) 235-241, ISBN 978-973-27-1576 (first-author).
	Total:			0.18	
6. Lucrari in extenso (cel putin 3 pagini) publicate in Proceedings-uri indexate ISI	6.1	11	8.00	0.03	L. D. S. Gonçalves, S. R. Valandro, H.-F. Wu, Y.-H. Lee, B. Mettra, C. Monnereau, C. C. S. Cavalheiro, A. Pawlicka, M. Focsan , C.-L. Lin, P. L. Baldeck, "3D Printing Natural Organic Materials by Photochemistry," SPIE Proceedings, Vol. 9745, 97450E-1~7, March 2016, , DOI: 10.1117/12.2217953
	6.2	6	5.50	0.04	Lerouge, F.; Navarro, J. R. G.; Focsan, M. ; Chaput F, Baldeck P and parola S, Sharp gold based hybrid nanoprobes for cell imaging through dark field microscopy, Nanobiosystems: Processing, Characterization, and Applications viii Volume: 9557 2015, DOI: 10.1117/12.2190853, Proceedings of SPIE
	6.3	7	6.00	0.03	A. Bensouici, M. Ayadi, M. Iosin , G. Damian, J.P. Plaza, S. Astilean, M. Sebais, Chemical Decomposition of CdTe and CdBr ₂ Dopants in KBr, 15th International Conference on Transparent Optical Networks (ICTON) 2013, ISBN:978-1-4799-0683-3.
	6.4	7	6.00	0.03	P. Baldeck, T. Scheul, J. Bosson, M. Iosin , C. L. Lin, G. Vitrant, O. Stephan, Advances in two-photon microstructuration of polymers, proteins and metallic materials with Q-switched microlasers, Nonlinear Optics Quantum Optics, volum 40, 2010 nr 1-4, 193-197
	Total:			0.13	
7. Brevete de inventie internationale acordate	7.1		0.00	0.00	

	7.2		0.00	0.00	
	Total:			0.00	
8. Brevete de inventie nationale acordate	8.1	5	5.00	0.10	1. M. Focsan, A. Campu, S. Astilean, T. Murariu, I. Turcu; Dispozitiv microfluidic plasmonic pe bază de nanoparticule bipiramidice de aur; Brevet Național O.S.I.M. RO 133447 B1; 2021.
	Total:			0.10	
9. Director/responsabil/coordonator pentru programe de studii, programe de formare continua, proiecte educationale si proiecte de infrastructura (proiectele de cercetare se exclud)	9.1				
	9.2				
	9.3				
	9.4				
	Total:			0.00	
10. Director/responsabil pentru proiecte de cercetare in valoare Vi EURO castigate prin competitie nationala sau internationala (proiectele de la punctul 9 se exclud). Sumele in lei sau in alte valute se convertesc in EURO la cursul mediu din anul respectiv conform www.bnro.ro pentru perioada de dupa 1999 si la cursul din 1999 pentru perioada anterioara. Responsabilitii de proiect sunt cei care conduc o echipa de cercetare, fiind mentionati ca atare in proiectul depus; in cazul lor se considera doar suma aferenta echipei conduse.	10.1	122805		1.23	Director, Nanocip Plasmonic, Portabil pentru Diagnosticul Rapid si la Fata Locului a Bolilor Cardiace prin Detectia Cantitativa a Biomarker-ului Cardiac Troponina, 495PED din 01/11/2020, (PN-III-P2-2.1-PED-2019-3345). Suma totala 600000 lei RON, Curs Mediu BNR 122805 EURO.
	10.2	50424		0.50	Responsabil proiect, Pansament flexibil gata de utilizare cu capacitat̄i sinergice fototermice și antimicrobiene, PN-III-P2-2.1-PED-2021-3342, 249498 Lei Curs BNR 4.9480
	10.3	88215		0.88	Director, Hartie Plasmonica Integrata in PDMS cu rol de NanoDispozitiv Versatil si Flexibil pentru Biodeetectie prin Fluorescenta Amplificata de Suprafata, [Chip4MEF], TE 37 din 28/08/2020, (PN-III-P1-1.1-TE-2019-1959). Suma Totala 431.900 RON, Curs BNR 88215 EURO
	10.4	46052		0.46	Responsabil proiect P1, Theranostic microplatforms for multimodal therapy of human ocular pathologies, a new paradigm in biomedical applications, PN-III-P2-2.1-PED-2019-4558, Suma Totala 225000 RON. Curs BNR 46052 Euro
	10.5	323427		3.23	Director, Biosenzor Plasmonic- Microfluidic pentru Detecția în timp real a unor Biomarkeri relevanți (NANOFLU) , PN-II-PT-PCCA-2013-4-1961, Agenția finanțatoare: UEFISCDI; Program în parteneriat, Suma totală 1.437.500 Lei, Curs Mediu BNR 2014: 4,4446
	10.6	123667		1.24	Director, Controlling FRET by surface plasmon resonance in multilayer "core-shell" metallic nanoparticles towards efficient nanoscopic light sources (NanoLight), Agenția finanțatoare: UEFISCDI; Resurse Umane, Tinere Echipe, PN-II-RU-TE-2014-4-2102, Suma totală: 549700 lei, Curs Mediu BNR 2015: 4,4450
	10.7	95491		0.95	Director, Fabricare de nanoplatforme senzoristice noi, flexibile și ieftine pe bază de hartie realizate prin caligrafie plasmonică pentru detecția ultrasensibilă multiplexată de biomarkeri specifici cancerului (NanoDet4All), câștigat pe poziția 1. PN-III-P1-1.1-TE-2016-2095, Agenția finanțatoare: UEFISCDI; Resurse Umane, Tinere Echipe, PN-III-P1-1.1-TE-2016-2095 Suma totală: 444.366 lei, , Curs Mediu BNR 2018: 4,6535

10.8	4860		0.05	Director, Platformă microfluidică pentru detecția plasmonică integrată (2plamidet) Agenția finanțatoare: UEFISCDI, Proiect Internațional Brancusi România-Franța, , Contract nr: 786/27.06.2014, Suma totală: 21600 lei , Curs Mediu BNR 2014: 4,445
10.9	12735		0.13	Dezvoltarea unor metode pentru biodetectia plasmonica și nanostructurarea proteinelor prin absorptia laser a doi fotoni, Nr. Proiect: TD-65/.2007, Agenția finanțatoare: CNCSIS, National Young PhD grant, Suma totală: 42500 lei , Curs Mediu BNR 2007: 3,3373
10.1	13933		0.14	Grant pentru cercetare stiintifica pentru tineri doctoranzi, BD/174 2007, Agenția finanțatoare: CNCSIS, Suma totală: 46500 lei , Curs Mediu BNR 2007: 3,3373
10.11	1500		0.02	Grant international: Aplicații ale nanoparticulelor din metale nobile în Biologie Medicină și Biotehnologii, Agenția finanțatoare: Bursă internațională, World Federation of Scientists, Elveția, 2006-2007
10.12	12900		0.13	Grant international: <i>Dezvoltarea de metode pentru biodetectia plasmonica</i> Agenția finanțatoare: Grant internațional, Agence Universitaire de la Francophonie (AUF), Franța, 2007
10.13	9353		0.09	Competitie nationala, <i>Platforme Biosenzoristice Sensibile și Eficiente pe bază de Hârtie pentru Aplicații de Diagnosticare</i> , UNESCO L'oreal Femeile din Stiinta
Total:			9.05	
Punctaj A:		11.66		

Activitatea didactica si profesionala

Nr. crt	Autori	Titlu articol	Revista	An	Vol.	Pag. Start	Pag. Sfarsit	DOI	ISSN	Nr. autori	N_ef	IF	AIS	AIS/ N_ef	IF/N_ef	Nr. citari	Nr. cit/ N_ef	Prim (0 sau 1)	AIS_Prim_i	Cvartila (Q1, Q2, Q3, Q4 sau Altele)
1	Iosin, M, Stephan, O, Astilean, Dupray, A, Baldeck, PL	Microstructuration of protein matrices by laser-induced photochemistry	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS	2007	9	719	720		1454-4164	5	5	0.827	0.161	0.032	0.165	18.000	3.600	1	0.161	Q3
2	Iosin, M, Toderas, F, Baldeck, P Astilean, S	In Vitro biosynthesis of gold nanotriangles for Surface-Enhanced Raman spectroscopy	JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS	2008	10	2285	2288		1454-4164	4	4	0.577	0.113	0.028	0.144	13	3.250	1	0.113	Q3
3	Iosin, M, Baldeck, Astilean, S	Plasmon-enhanced fluorescence of dye molecules	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2009	267	403	405	10.1016/j.nimb.2008.10.055	0168-583X	3	3	1.156	0.35	0.117	0.385	22	7.333	1	0.350	Q1
4	Toderas, F, Iosin, M, Astilean, S	Luminescence properties of gold nanorods	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2009	267	400	402	10.1016/j.nimb.2008.10.018	0168-583X	3	3	1.156	0.35	0.117	0.385	25	8.333	0	0.000	Q1
5	Iosin, M, Toderas, F, Baldeck, PL, Astilean, S	Study of protein-gold nanoparticle conjugates by fluorescence and surface-enhanced Raman scattering	JOURNAL OF MOLECULAR STRUCTURE	2009	294	196	200	10.1016/j.molsturuc.2009.02.004	0022-2860	4	4	1.551	0.369	0.092	0.388	125	31.250	1	0.369	Q3
6	Stiufluc, R, Toderas, F, Iosin, M Stiufluc, G	ANISOTROPIC GOLD NANOCRYSTALS: SYNTHESIS AND CHARACTERIZATION	INTERNATIONAL JOURNAL OF MODERN PHYSICS B	2010	24	6	7	10.1142/S0217979210064381	0217-9792	4	4	0.402	0.158	0.040	0.101	4	1.000	0	0.000	Q4
7	Dzagli, MM ; Canpean, V, Iosin, M, Mohou, MA, Astilean, S	Study of the interaction between CdSe/ZnS core-shell quantum dots and bovine serum albumin by spectroscopic techniques	JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY	2010	215	118	122	10.1016/j.jphotochem.2010.08.008	1010-6030	5	5	2.243	0.681	0.136	0.449	49	9.800	1	0.681	Q2
8	Iosin, M Baldeck, P ; Astilean, S	Study of tryptophan assisted synthesis of gold nanoparticles by combining UV-Vis, fluorescence, and SERS spectroscopy	JOURNAL OF NANOPARTICLE RESEARCH	2010	12	2843	2849	10.1007/s11051-010-9869-6	1388-0764	3	3	3.253	0.999	0.333	1.084	32	10.667	1	0.999	Q1
9	Canpean, V Iosin, M Astilean, S	Disentangling SERS signals from two molecular species: A new evidence for the production of p,p'-dimercaptoazobenzene by catalytic coupling reaction of p-aminothiophenol on Spectroscopic studies on pH- and thermally induced conformational changes of Bovine Serum Albumin adsorbed onto gold nanoparticles	CHEMICAL PHYSICS LETTERS	2010	500	277	282	10.1016/j.cplett.2010.10.006	0009-2614	3	3	2.291	0.762	0.254	0.764	51	17.000	0	0.000	Q2
10	Iosin, M , Canpean, V Astilean, S		JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY	2011	217	395	401	10.1016/j.jphotochem.2010.11.012	1010-6030	3	3	2.421	0.692	0.231	0.807	79	26.333	1	0.692	Q2

11	Iosin, M ; Scheul T ; Nizak, C Stephan, O ; Astilean, S Baldeck, P	Laser microstructuration of three-dimensional enzyme reactors in microfluidic channels	MICROFLUIDICS AND NANOFUIDICS	2011	10	685	690	10.1007/s10404-010-0698-9	1613-4982	6	5.5	3.371	1.026	0.187	0.613	30	5.455	1	1.026	Q1
12	Zaiba, S , Lerouge, F, Gabudean, AM ; Focsan, M Lerme, J ; Gallavardin, T Maury, O Andraud, C Parola, S - Baldeck	Transparent Plasmonic Nanocounters Protect Organic Fluorophores against Photobleaching	NANO LETTERS	2011	11	2043	2047	10.1021/nl2004847	1530-6984	10	7.5	13.198	5.07	0.676	1.760	46	6.133	0	0.000	Q1
13	Gabudean, AM Lerouge, F Gallavardin, T Iosin, M Zaiba, S Maury, O Baldeck, PL Andraud, C Parola, S	Synthesis and optical properties of dyes encapsulated in gold hollow nanoshells	Optical Materials	2011	33	1377	1381	10.1016/j.optmat.2011.03.017	0925-3467	9	7	2.023	0.563	0.080	0.289	11	1.571	0	0.000	Q2
14	Focsan, M Gabudean, AM Canpean, V Maniu, D Astilean, S	Formation of size and shape tunable gold nanoparticles in solution by bio-assisted synthesis with bovine serum albumin in native and denatured state	MATERIALS CHEMISTRY AND PHYSICS	2011	129	939	924	10.1016/j.matchemphys.2011.05.041	0254-0584	5	5	2.234	0.63	0.126	0.447	16	3.200	1	0.630	Q1
15	Focsan, M; Ardelean, II Craciun, C Astilean, S	Interplay between gold nanoparticle biosynthesis and metabolic activity of cyanobacterium Synechocystis sp PCC 6803	NANOTECHNOLOGY	2011	22	485101		10.1088/0957-4484/22/48/485101	0957-4484	4	4	3.979	1.236	0.309	0.995	38	9.500	1	1.236	Q1
16	Gabudean, AM Focsan, M Astilean, S	Gold Nanorods Performing as Dual-Modal Nanoprobes via Metal-Enhanced Fluorescence (MEF) and Surface-Enhanced Raman Scattering (SERS)	JOURNAL OF PHYSICAL CHEMISTRY C	2012	16	12240	12249	10.1021/jp211954m	1932-7447	3	3	4.814	1.374	0.458	1.605	108	36.000	0	0.000	Q1
17	Oltean, M ; Calborean, A Mile, G Vidrighin, M Iosin, M Leopold, L ; Maniu, D Leopold, N Chis, V	Absorption spectra of PTCDA: A combined UV-Vis and TD-DFT study	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	2012	97	703	710	10.1016/j.saa.2012.07.056	1386-1425	9	7	1.977	0.352	0.050	0.282	41	5.857	0	0.000	Q2
18	Thioune, N Lidi-Guigui, N ; Cottat, M ; Gabudean, AM ; Focsan, M ; Benoist, HM ; Astilean, S ; de la Chapelle, ML	Study of gold nanorods-protein interaction by localized surface plasmon resonance spectroscopy	Gold Bulletin	2013	46	275	281	10.1007/s13404-013-0118-5	0017-1557	8	6.5	1.84	0.689	0.106	0.283	16	2.462	0	0.000	Q3
19	Bensouici, A Ayadi, M Iosin, M Damian, G ; Plaza, JL ; Astilean, S Sebais, M	Chemical Decomposition of CdTe and CdBr ₂ Dopants in KBr	2013 15TH INTERNATIONAL CONFERENCE ON TRANSPARENT OPTICAL NETWORKS (ICTON 2013)	2013							0			0.000	0.000		0.000	0	0.000	0.000

20	Suarasan, S ; Focsan, M ; Maniu, D ; Astilean, S	Gelatin-nanogold bioconjugates as effective plasmonic platforms for SERS detection and tagging	COLLOIDS AND SURFACES B-BIOINTERFACES	2013	103	475	481	10.1016/j.colsurfb.2012.10.046	0927-7765	4	4	4.287	0.827	0.207	1.072	27	6.750	0	0.000	Q1
21	Cottat, M Thioiune, N Gabudean, AM ; Lidgi-Guigui, N ; Focsan, M ; Astilean, S ; de la Chapelle, ML	Localized Surface Plasmon Resonance (LSPR) Biosensor for the Protein Detection	PLASMONICS	2013	8	699	704	10.1007/s11468-012-9460-3	1557-1955	7	6	2.738	0.819	0.137	0.456	36	6.000	0	0.000	Q1
22	Iliut, M ; Iosin, M ; Astilean, S	MONITORING THE EFFECTS OF ULTRAVIOLET AND VISIBLE LIGHT ON Rb AND VITAMIN A IN MILK	ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL	2013	12	2443	2448		1582-9596	3	3	1.258	0.066	0.022	0.419	1	0.333	0	0.000	Q3
23	Navarro, JRG ; Lerouge, F ; Micouin, G ; Cepraga, C ; Favier, A ; Charreyre, MT ; Blanchard, NP ; Lerme, J ; Chaput, F ; Focsan, M ; Kamada, K ; Baldeck, PL ; Parola, S	Plasmonic bipyramids for fluorescence enhancement and protection against photobleaching	Nanoscale	2014	6	5138	5145	10.1039/c3nr06425e	2040-3364	13	9	7.394	1.74	0.193	0.822	25	2.778	0	0.000	Q1
24	Tira, DS ; Focsan, M ; Ulinici, S ; Maniu, D ; Astilean, S	Rhodamine B-Coated Gold Nanoparticles as Effective "Turn-on" Fluorescent Sensors for Detection of Zinc II Ions in Water	SPECTROSCOPY LETTERS	2014	47	153	159	10.1080/00387010.2013.782557	0038-7010	5	5	0.852	0.164	0.033	0.170	19	3.800	0	0.000	Q4
25	Focsan, M Gabudean, AM Vulpoi, A ; Astilean, S	Controlling the Luminescence of Carboxyl-Functionalized CdSe/ZnS Core-Shell Quantum Dots in Solution by Binding with Gold Nanorods	JOURNAL OF PHYSICAL CHEMISTRY C	2014	43	25190	25199	10.1021/jp501281v	1932-7447	4	4	4.772	1.234	0.309	1.193	30	7.500	1	1.234	Q1
26	Diac, A ; Focsan, M ; Socaci, C ; Gabudean, AM ; Farcau, C ; Maniu, D ; Vasile, E ; Terec, A ; Veca, LM ; Astilean, S	Covalent conjugation of carbon dots with Rhodamine B and assessment of their photophysical properties	RSC ADVANCES	2015	5	77662	77669	10.1039/c5ra13161h	2046-2069	10	7.5	3.289	0.628	0.084	0.439	27	3.600	1	0.628	Q2
27	Lerouge, F ; Navarro, JRG ; Focsan, M ; Chaput, F ; Baldeck, P ; Parola, S	SHARP GOLD BASED HYBRID NANOPROBES FOR CELL IMAGING THROUGH DARK-FIELD MICROSCOPY	Proceedings of SPIE	2015	9557			10.1117/12.2190853		6	5.5			0.000	0.000		0.000	0	0.000	0.000

28	Suarasan, S ; Focsan, M ; Soritau, O ; Maniu, D ; Astilean, S	One-pot, green synthesis of gold nanoparticles by gelatin and investigation of their biological effects on Osteoblast cells	COLLOIDS AND SURFACES B-BIOINTERFACES	2015	132	122	131	10.1016/j.colsurfb.2015.05.009	0927-7765	5	5	3.902	0.8	0.160	0.780	47	9.400	0	0.000	Q1
29	Leordean, C ; Marta, B Gabudean, AM, Focsan, M Botiz, I Astilean, S	Fabrication of highly active and cost effective SERS plasmonic substrates by electrophoretic deposition of gold nanoparticles on a DVD template	APPLIED SURFACE SCIENCE	2015	349	190	195	10.1016/j.apsusc.2015.04.208	0169-4332	6	5.5	3.15	0.574	0.104	0.573	20	3.636	0	0.000	Q1
30	Goncalves, JLD ; Valandro, SR] ; Wu, HF ; Lee, YH ; Mettra, B ; Monnerie, C ; Cavalheiro, CCS ; Pawlicka, A ; Focsan, M ; Lin, CL ; Baldeck, PL	3D Printing Natural Organic Materials by Photochemistry	Proceedings of SPIE, ORGANIC PHOTONIC MATERIALS AND DEVICES XVIII	2016	9745			10.1117/12.2217953		11	8			0.000	0.000	2	0.250	0	0.000	
31	Craciun, AM ; Diac, A ; Focsan, M ; Socaci, C ; Magyari, K ; Maniu, D ; Mihalache, I ; Veca, LM ; Astilean, S ; Terec, A	Surface passivation of carbon nanoparticles with p-phenylenediamine towards photoluminescent carbon dots	RSC ADVANCES	2016	6	S6944	S6951	10.1039/c6ra10127e	2046-2069	10	7.5	3.108	0.59	0.079	0.414	24	3.200	0	0.000	Q2
32	Focsan, M ; Craciun, AM ; Astilean, S ; Baldeck, PL	Two-photon fabrication of three-dimensional silver microstructures in microfluidic channels for volumetric surface-enhanced Raman scattering detection	OPTICAL MATERIALS EXPRESS	2016	6	1587	1593	10.1364/OME.6.001587	10.1364/OME.6.001587	4	4	2.591	0.749	0.187	0.648	16	4.000	1	0.749	Q2
33	Suarasan, S ; Focsan, M ; Potara, M ; Soritau, O ; Florea, A ; Maniu, D ; Astilean, S	Doxorubicin-Incorporated Nanotherapeutic Delivery System Based on Gelatin-Coated Gold Nanoparticles: Formulation, Drug Release, and Multimodal Imaging of Cellular Internalization	ACS APPLIED MATERIALS & INTERFACES	2016	8	22900	22913	10.1021/acsami.6b07583	1944-8244	7	6	7.504	1.581	0.264	1.251	71	11.833	0	0.000	Q1
34	Focsan, M ; Campu, A ; Craciun, AM ; Potara, M ; Leordean, C ; Maniu, D ; Astilean, S	A simple and efficient design to improve the detection of biotin-streptavidin interaction with plasmonic nanobiosensors	BIOSENSORS & BIOELECTRONICS	2016	86	728	735	10.1016/j.bios.2016.07.054	0956-5663	7	6	7.780	1.178	0.196	1.297	30	5.000	1	1.178	Q1
35	Craciun, AM ; Focsan, M ; Gaina, L ; Astilean, S	Enhanced one- and two-photon excited fluorescence of cationic (phenothiazinyl)vinylpyridinium chromophore attached to polyelectrolyte-coated gold nanorods	DYES AND PIGMENTS	2017	136	24	30	10.1016/j.dyepig.2016.08.033	0143-7208	4	4	3.767	0.534	0.134	0.942	7	1.750	0	0.000	Q1

36	Craciun, AM ; Focsan, M] ; Magyari, K ; Vulpoi, A ; Pap, Z	Surface Plasmon Resonance or Biocompatibility-Key Properties for Determining the Applicability of Noble Metal Nanoparticles	MATERIALS	2017	10	836		10.3390/ma10070836	1996-1944	5	5	2.467		0.000	0.493	27	5.400	1	0.000	Q2
37	Focsan, M ; Craciun, AM ; Potara, M ; Leordean, C; Vulpoi, A ; Maniu, D ; Astilean, S	Flexible and Tunable 3D Gold Nanocups Platform as Plasmonic Biosensor for Specific Dual LSPR-SERS Immuno-Detection	SCIENTIFIC REPORTS	2017	7	14240		10.1038/s41598-017-14694-1	2045-2322	7	6	4.122	1.356	0.226	0.687	34	5.667	1	1.356	Q1
38	Campu, A ; Lerouge, F ; Chateau, D ; Chaput, F ; Baldeck, P ; Parola, S ; Maniu, D ; Craciun, AM ; Vulpoi, A ; Astilean, S ; Focsan, M	Gold nanobipyramids performing as highly sensitive dual-modal optical immunosensors	ANALYTICAL CHEMISTRY	2018	90	8567	8575	10.1021/acs.analchem.8b01689	0003-2700	11	8	6.350	1.348	0.169	0.794	27	3.375	1	1.348	Q1
39	Susu, L ; Campu, A ; Craciun, AM ; Vulpoi, A ; Astilean, S ; Focsan, M	Designing Efficient Low-Cost Paper-Based Sensing Plasmonic Nanoplatforms	SENSORS	2018	18	3035		10.3390/s18093035	1424-8220	6	5.5	3.031	0.170	0.031	0.551	5	0.909	1	0.170	Q2
40	Potara, M ; Focsan, M; Craciun, AM ; Botiz, I ; Astilean, S	Polymer-coated plasmonic nanoparticles for environmental remediation: Synthesis, functionalization, and properties	NEW POLYMER NANOCOMPOSITES FOR ENVIRONMENTAL REMEDIATION	2018		361	387			5	5			0.000	0.000	9	1.800	1	0.000	0.000
41	Hampel, B ; Kovacs, G ; Czekes, Z ; Hernadi, K ; Danciu, V ; Ersen, O ; Girleanu, M ; Focsan, M ; Baia, L ; Pap, Z	Mapping the Photocatalytic Activity and Ecotoxicology of Au, Pt/TiO ₂ Composite Photocatalysts	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	2018	6	12993	13006	10.1021/acssuschemeng.8b02465	2168-0485	10	7.5	7.632	1.300	0.173	1.018	15	2.000	0	0.000	Q1
42	Suarasan, Sorina; Craciun, Ana-Maria; Licarete, Emilia; Focsan, Monica; Magyari, Klara; Astilean, Simion	Intracellular dynamic disentangling of Doxorubicin release from luminescent nanogold carriers by Fluorescence Lifetime Imaging Microscopy (FLIM) under two-photon excitation	ACS applied materials & interfaces	2019	11	7812	7822	10.1021/acsami.8b21269	1944-8252	6	5.5	8.758	1.685	0.306	1.592	19	3.455	0	0.000	Q1
43	Campu, A ; Susu, L ; Orzan, F ; Maniu, D ; Craciun, AM ; Vulpoi, A ; Roiban, L ; Focsan, M ; Astilean, S	Multimodal biosensing on paper-based platform fabricated by plasmonic calligraphy using gold nanobipyramids ink	Frontiers in Chemistry	2019	7	55		10.3389/fchem.2019.00055	2296-2646	9	7	3.393	0.868	0.124	0.485	6	0.857	1	0.868	Q2

44	Sz.Fodor, L.Baia, M.Focșan, K.Hernád, Zs.Pap	Designed and controlled synthesis of visible light active copper(I)oxide photocatalyst: From cubes towards the polyhedrons - with Cu nanoparticles	APPLIED SURFACE SCIENCE	2019	484	175		https://doi.org/10.1016/j.apsusc.2019.03.288	0169-4332	5	5	6.182	0.772	0.154	1.236	4	0.800	0	0.000	Q1	
45	Dumitrita Rugină, Raluca Ghiman, Monica Focșan, Flaviu Tăbăran, Florina Copaciu, Maria Suciu, Adela Pintea, Simion Aștilean	Resveratrol-delivery vehicle with anti-VEGF activity carried to human retinal pigmented epithelial cells exposed to high-glucose induced conditions	Colloids and Surfaces B: Biointerfaces	2019	181	66	75	https://doi.org/10.1016/j.colsurfb.2019.04.022	0927-7765	8	6.5	4.389	0.681	0.105	0.675	10	1.538	1	0.681	Q1	
46	Andreea Campu, Ana-Maria Craciun, Monica Focșan and Simion Aștilean	Assessment of the photothermal conversion efficiencies of tunable gold bipyramids under irradiation by two laser lines in a NIR biological window	Nanotechnology	2019	30	405701		https://doi.org/10.1088/1361-6528/ab2d90	0957-4484	4	4	3.551	0.706	0.177	0.888	4	1.000	1	0.706	Q2	
47	Tie, ; Focsan, M; Bosson, J; Tira, C; Campu, A; Vulpoi, A; Astilean, S	Controlling the end-to-end assembly of gold nanorods to enhance the plasmonic response in near infrared	MATERIALS RESEARCH EXPRESS	2019	6	95038		10.1088/2053-1591/ab2eb0	2053-1591	7	6	1.929	0.228	0.038	0.322	9	1.500	1	0.228	Q3	
48	A. Piperno, A. Mazzaglia, A. Scala, R. Pennisi, R. Zagami, G. Neri, S. M. Torcasio, C. Rosmini, P. G. Mino, M. Potara, Monica FocșanSimion AstileanGrace Guoying ZhouMaria Teresa Sciotino	Casting Light on Intracellular Tracking of a New Functional Graphene-based microRNA Delivery System by FLIM and Raman Imaging	ACS applied materials & interfaces	2019	11	46101	46111	https://doi.org/10.1021/acsmi.9b15826	1944-8244	14	9.5	8.758	1.685	0.177	0.922	17	1.789	0	0.000	Q1	
49	C Tudor, T Bohn, M Iddir, FV Dulf, M Focșan, DO Rugină, A Pintea	Sea Buckthorn Oil as a Valuable Source of Bioaccessible Xanthophylls	Nutrients	2020	12	76		https://doi.org/10.3390/nu12010076	2072-6643	7	6	5.717	1.139	0.190	0.953	32	5.333	0	0.000	Q1	
50	A.I Pricopie, M. Focșan, I. Ionut, G. Marc, L. Vlase, L.I. Gaina, D. C. Vodnar, S. Elemer, G. Barta, A. Parnau, O. Oniga,	Novel 2,4-disubstituted-1,3-Thiazole Derivatives: Synthesis, Anti-Candida Activity Evaluation and Interaction with Bovine Serum Albumine	Molecules	2020	25	1079		doi:10.3390/molecules25051079	1420-3049	11	8	4.411	0.694	0.087	0.551	8	1.000	1	0.694	Q2	
51	Potara, M; Campu, A; Maniu, D; Focșan, M; Botiz, I; Astilean, S	Advanced nanostructures for microbial contaminants detection by means of spectroscopic methods	ADVANCED NANOSTRUCTURES FOR ENVIRONMENTAL HEALTH	2020		347	384	10.1016/B978-0-12-815882-1.00008-2			6	5.5			0.000	0.000	3	0.545	0.000	0.000	0.000

52	Raluca Borlan, Andra-Sorina Tatar, Olga Sorita, Dana Maniu, Gabriel Marc, Adrian Florea, Monica Focsan, Simion Astilean	Design of Fluorophore Loaded Human Serum Albumin Nanoparticles for Specific Targeting of NIH:OVCAR3 Ovarian Cancer Cells	Nanotechnology	2020	31	315102		10.1088/1361-6528/ab8b90	0957-4484	8	6.5	3.874	0.677	0.104	0.596	4	0.615	1	0.677	Q2
53	Andreea Campu, Frederic Lerouge, Ana-Maria Craciun, Teodora Murariu, Ioan Turcu, Simion Astilean and Monica Focsan	Microfluidic Platform for Integrated Plasmonic Detection in Laminal Flow	Nanotechnology	2020	31	335502		10.1088/1361-6528/ab8e72	0957-4484	7	6	3.874	0.677	0.113	0.646	2	0.333	1	0.677	Q2
54	E. Molnar, E. Gal, L. Gaina , C. Cristea, E. Fischer-Fodor, M. Perde-Schrepler, P. Achimas-Cadararu, M. Focsan, L. Silaghi-Dumitrescu	Novel Phenothiazine-Bridged Porphyrin-(Hetero)aryl dyads: Synthesis, Optical Properties, In Vitro Cytotoxicity and Staining of Human Ovarian Tumor Cell Lines	Int. J. Mol. Sci.,	2020	21	3178		10.3390/ijms21093178	1422-0067	9	7	5.953	0.600	0.086	0.850	6	0.857	0	0.000	Q1
55	Laurentiu Susu, Andreea Campu, Simion Astilean, Monica Focsan	Calligraphed Selective Plasmonic Arrays on Paper Platforms for Complementary Dual Optical "ON/OFF Switch" Sensing	Nanomaterials	2020	10	1025		https://doi.org/10.3390/nano10061025	2079-4991	4	4	5.079	0.756	0.189	1.270	3	0.750	1	0.756	Q2
56	Campu, A, Focsan, M, Lerouge, F, Borlan, R, Tie, L, Rugina, D, Astilean, S	ICG-loaded gold nano-bipyramids with NIR activatable dual PTT-PDT therapeutic potential in melanoma cells	COLLOIDS AND SURFACES B-BIOINTERFACES	2020	194	111213		10.1016/j.colsurfb.2020.111213	0927-7765	7	6	5.268	0.709	0.118	0.878	30	5.000	1	0.709	Q1
57	Tie, L, Raileanu, M, Bacalum, M, Codita, I, Negrea, SM, Caracoti, CS, Dragulescu, EC, Campu, A, Astilean, S, Focsan, M,	Versatile Polypeptide-Functionalized Plasmonic Paper as Synergistic Biocompatible and Antimicrobial Nanoplatform	Molecules	2020	25	3182		10.3390/molecules25143182	1420-3049	10	7.5	4.412	0.694	0.093	0.588	2	0.267	1	0.694	Q2
58	Caccamo, D ; Ientile, R ; Verderio, EAM; Scala, A ; Mazzaglia, A; Pennisi, R ; Musarra-Pizzo, M ; Rosmini, C; Potara, M ; Focsan, M; Astilean, S (Astilean; Piperno, A ; Sciotino, MT	Intracellular Fate and Impact on Gene Expression of Doxorubicin/Cyclodextrin-Graphene Nanomaterials at Sub-Toxic Concentration	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2020	21	4891		10.3390/ijms21144891	1422-0067	16	10.33333333	5.953	1.123	0.109	0.576	14	1.355	0	0.000	Q1

59	L. Monica VECA, Anamaria TEREC Andreea P. CRISAN, Ana-Maria CRACIUN, Iuliana MIHALACHE, Monica FOCSAN, Crina SOCACI, Dana MANIU, Simion ASTILEAN	Surface passivation of carbon nanoparticles with 1,2-phenylenediamine towards photoluminescent carbon dots	Rev. Roum. Chim	2020	65	559	566	10.33224/rrch.2020.65.6.05	0035-3930	9	7	0.278	0.047	0.007	0.040	0.169	0.024	0	0.000	Q4
60	L. De Sio, B. Ding, M. Focsan, K. Kogermann, P. Pascoal-Faria, F. Petronela, G. Mitchell, E.	Personalized Reusable Face Masks with Smart Nano-Assisted Destruction of Pathogens for COVID-19: a Visionary Road	CHEMISTRY-A EUROPEAN JOURNAL	2021	27	6112	6130	https://doi.org/10.1002/chem.202004875	0947-6539	9	7	5.020	0.975	0.139	0.717	47.000	6.714	0	0.000	Q2
61	Alexandru-MilentieHada, Ana-Maria Craciun, Monica Focsan, Raluca Borlan, Olga Soritau, Milica Todea, Simion Astilean	Folic acid functionalized gold nanoclusters for enabling targeted fluorescence imaging of human ovarian cancer cells	Talanta	2021	225	121960		https://doi.org/10.1016/j.talanta.2020.121960	0039-9140	7	6	6.556	0.765	0.128	1.093	23.000	3.833	0	0.000	Q1
62	Ana-Maria Craciun, Sorina Suarasan, Monica Focsan, Simion Astilean	One-photon excited photoluminescence of gold nanospheres and its application in prostate specific antigen detection via fluorescence correlation spectroscopy (FCS)	Talanta	2021	228	122242		https://doi.org/10.1016/j.talanta.2021.122242	0039-9140	4	4	6.556	0.765	0.191	1.639	6.000	1.500	0	0.000	Q1
63	Borlan R, Focsan M, Maniu D, Astilean S	Interventional NIR Fluorescence Imaging of Cancer: Review on Next Generation of Dye-Loaded Protein-Based Nanoparticles for Real-Time Feedback During Cancer Surgery	International Journal of Nanomedicine	2021	16	2147	2171	https://doi.org/10.2147/IJN.S295234	1178-2013	4	4	7.033		0.000	1.758	7.000	1.750	1	0.000	Q1
64	B. Stoean, D. Rugina, M. Focsan, A.-M. Craciun, M. Nistor, T. Lovasz, A. Turza, I.-D. Porumb, E. Gál, C. Cristea, L. Silaghi-Dumitrescu, S. Astilean, L. Gaina	Novel (Phenothiazinyl)Vinyl-Pyridinium Dyes and Their Potential Applications as Cellular Staining Agents	Int. J. Mol. Sci.	2021	22	2985		https://doi.org/10.3390/ijms22062985	1422-0067	13	9	5.924	1.123	0.125	0.658	5.000	0.556	0	0.000	Q1
65	Raluca Griman, Madalina Nistor, Monica Focsan, Adela Pintea, Simion Astilean and Dumitrita Rugina	Fluorescent Polyelectrolyte System to Track Anthocyanins Delivery inside Melanoma Cells	Nanomaterials	2021	11	782		https://doi.org/10.3390/nano11030782	2079-4991	6	5.5	5.719	0.738	0.134	1.040	3.000	0.545	1	0.738	Q1

66	Timea Nagy-Simon, Oana Diaconu, Monica Focsan, Adriana Vulpoi, Ioan Botiz, Ana-Maria Craciun	Pluronic stabilized conjugated polymer nanoparticles for NIR fluorescence imaging and dual phototherapy applications	Journal of Molecular Structure	2021	1243	130931		https://doi.org/10.1016/j.molstruc.2021.130931	0022-2860	6	5.5	3.841	0.315	0.057	0.698	5.000	0.909	0	0.000	Q3
67	Sorina Suarasan, Cristian Tira, Mihai M.Rusu, Ana-Maria Craciun, Monica Focsan	Controlled Fluorescence Manipulation by Core-Shell Multilayer of Spherical Gold Nanoparticles: Theoretical and Experimental evaluation	Journal of Molecular Structure	2021	1244	130950		https://doi.org/10.1016/j.molstruc.2021.130950	0022-2861	5	5	3.841	0.315	0.063	0.768	2.000	2.000	1	0.315	Q3
68	Monica Potara, Timea Nagy-Simon, Monica Focsan, Emilia Licarette, Olga Soritau, Adriana Vulpoi, Simion Astilean	Folate-targeted Pluronic-chitosan nanocapsules loaded with IR780 for near-infrared fluorescence imaging and photothermal-photodynamic therapy of	Colloids and Surfaces B: Biointerfaces	2021	203	111755		https://doi.org/10.1016/j.colsurfb.2021.111755	0927-7765	7	6	5.999	0.707	0.118	1.000	21.000	3.500	0	0.000	Q1
69	Madalina Nistor, Monica Focsan, Luiza Gaina, Mihai Cenariu, Adela Pintea, Carmen Socaciu, Dumitrita Rugina	Real-time fluorescence imaging of anthocyanins complexed with diphenylboric acid 2-aminoethyl inside B16-F10 melanoma ce	Phytochemistry	2021	189	112849		https://doi.org/10.1016/j.phytocchem.2021.112849	0031-9422	7	6	4.004	0.642	0.107	0.667	3.000	0.500	0	0.000	Q1
70	A.-M. Hada, M. Zetes, M. Focsan, T. Nagy-Simon, A.-M. Craciun,	Novel paper-based sensing platform using photoluminescent gold nanoclusters for easy, sensitive and selective naked-eye detection of Cu ²⁺	Journal of Molecular Structure	2021	1244	130990		https://doi.org/10.1016/j.molstruc.2021.130990	0022-2860	5	5	3.841	0.315	0.063	0.768	6.000	1.200	0	0.000	Q3
71	Nikita Sharma, Zsolt Pap, István Székely, Monica Focsan, Gábor Karacs, Zoltan Nemeth, Seema Garg, Klara Hernadi	Combination of iodine-deficient BiOI phases in the presence of CNT to enhance photocatalytic activity towards phenol decomposition under visible light	APPLIED SURFACE SCIENCE	2021	565	150605		https://doi.org/10.1016/j.apsurfsc.2021.150605	0169-4332	8	6.5	7.392	0.848	0.130	1.137	10.000	1.538	0	0.000	Q1
72	R Borlan, M Focsan, M Perde-Schrepler, O Soritau, A Campu, L Gaina, E Pall, B Pop, O Baldasici, C Gherman, D Stoia, D Maniu and S Astilean	Antibody-functionalized theranostic protein nanoparticles for the synergistic deep red fluorescence imaging and multimodal therapy of ovarian cancer	Biomaterial Science	2021	9	6183	6202	https://doi.org/10.1039/d1bm01002f	2047-4830	13	9	7.570	1.080	0.120	0.841	1.000	0.111	1	1.080	Q1
73	A. Campu, F. Lerouge, D. Maniu, K. Magyari, M. Focsan,	Ultrasensitive SEIRA detection using gold nanobipyramids: Toward efficient multimodal immunosensor	Journal of Molecular Structure	2021	1246	131160		https://doi.org/10.1016/j.molstruc.2021.131160	0022-2860	5	5	3.841	0.315	0.063	0.768	2.000	0.400	1	0.315	Q3

74	Raluca Borlan, Daria Stoia, Luiza Gaîna, Andreea Campu, Gabriel Marc, Maria Perde-Schrepler, Mihaela Silion, Dana Maniu, Monica Focsan, Simion	Fluorescent Phthalocyanine-Encapsulated Bovine Serum Albumin Nanoparticles: Their Deployment as Therapeutic Agents in the NIR Region	Molecules	2021	26			10.3390/molecules26154679	1420-3049	10	7.5	4.927	0.671	0.089	0.657	3.000	0.400	1	0.671	Q2
75	Raluca Ghiman, Pop Raluca, Rugina Dumitrita, Monica Focsan	Recent progress in preparation of microcapsules with tailored structures for biomedical applications	Journal of Molecular Structure	2021	1248	131366		10.1016/j.molsturuc.2021.131366	0022-2860	4	4	3.841		0.000	0.960	6.000	1.500	0	0.000	Q3
76	B. Boga, I. Székely, M. Focsan, M. Baia, T. Szabó, L. Nagy, Z. Pap,	Sensor surface via inspiration from Nature: The specific case of electron trapping in TiO ₂ /WO ₃ (center dot 0.33H ₂ O) and reaction center/WO ₃ (center dot 0.33H ₂ O) systems	APPLIED SURFACE SCIENCE	2021	572	151139		10.1016/j.apsusc.2021.151139	0169-4332	7	6	7.932	0.848	0.141	1.322	2.000	0.333	0	0.000	Q1
77	Diana Raluca Lazar, Florin-Leontin Lazar, Calin Homorodean, Calin Cainap, Monica Focsan, Simona Cainap, Dan Mircea Olinic	High-Sensitivity Troponin: A Review on Characteristics, Assessment, and Clinical Implications	Disease Markers	2022	2022	9713326		10.1155/2022/9713326	0278-0240	7	6	3.464		0.000	0.577	2.000	4.000	0	0.000	Q3
78	M. Potara, S. Suarasan, A-M. Craciun, M. Focsan, A-M. Hada, S. Astilean,	Probing polyvinylpyrrolidone-passivated graphene oxide nanoflakes as contrast agents inside tissue-like phantoms via multimodal confocal microscopy	Talanta	2022	247	123581		10.1016/j.talanta.2022.123581	0039-9140	6	5.5	6.556	0.765	0.139	1.192	0.000	0.000	0	0.000	Q1
79	Mihaela Mic, Adrian Pîrnău, Călin G Floare, Raluca Borlan, Monica Focsan, Ovidiu Oniga, Mircea Bogdan, Laurian Vlase, Ilieara Oniga, Gabriel Marc	Antioxidant Activity Evaluation and Assessment of the Binding Affinity to HSA of a New Catechol Hydrazinyl-Thiazole Derivative	Antioxidants	2022	11	1245		10.3390/antiox11071245	2076-3921	10	7.5	7.675	0.921	0.123	1.023	0.000	0.000	0	0.000	Q1
80	A. Campu, I. Muresan, A-M. Craciun, S. Cainap, S. Astilean, M. Focsan	Cardiac Troponin Biosensor Designs: Current Developments and Remaining Challenges	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2022	23	7728		10.3390/ijms23147728	1422-0067	6	5.5	6.208		0.000	1.129	3.000	0.545	1	0.000	Q1
81	Alexandru-Milentie Hada, Ana-Maria Craciun, Monica Focsan, Adriana Vulpoi, Elena-Larisa Borcan, Simion Astilean	Glutathione-capped gold nanoclusters as near-infrared-emitting efficient contrast agents for confocal fluorescence imaging of tissue-mimicking phantoms	Microchimica Acta	2022	189	337		10.1007/s00604-022-05440-0	0026-3672	6	5.5	6.408	0.752	0.137	1.165	2.000	0.364	0	0.000	Q1

82	B. Stoean, L. Gaina, C. Cristea, R Silaghi-Dumitrescu, A. MV Branzanic, M. Focsan, E. Fischer-Fodor, B. Tigu, C. Moldovan, A. Diana Cescan, P. Achimas-Cadariu, S. Astilean, L. Silaghi-Dumitrescu	New methylene blue analogues with N-piperidinyl-carbinol units: Synthesis, optical properties and in vitro internalization in human ovarian cancer cells	DYES AND PIGMENTS	2022	205	110460	10.1016/j.dyepig.2022.110460	0143-7208	13	9	5.122	0.513	0.057	0.569	3.000	0.333	0	0.000	Q1
83	Laurentiu Susu, Adriana Vulpoi, Simion Astilean, Monica Focsan	Portable Plasmonic Paper-Based Biosensor for Simple and Rapid Indirect Detection of CEACAM5 Biomarker via Metal-Enhanced Fluorescence	International Journal of Molecular Sciences	2022	23	11982	10.3390/ijms231911982	1422-0067	4	4	6.208	1.064	0.266	1.552	0.000	0.000	1	1.064	Q1
84	Alexandru-Milentie Hada, Markus Zetes, Monica Focsan, Simion Astilean, Ana-Maria Craciun	Photoluminescent Histidine-Stabilized Gold Nanoclusters as Efficient Sensors for Fast and Easy Visual Detection of Fe Ions in Water Using Paper-Based Portable Platform	International Journal of Molecular Sciences	2022	23	12410	10.3390/ijms232012410	1422-0067	5	5	6.208	1.064	0.213	1.242	0.000	0.000	0	0.000	Q1
85	Chis, V, Focsan, M, M Chapelle, ML Fausto, R	Preface	Journal of Molecular Structure	2022	1250	131971	10.1016/j.molstruc.2021.131971	0022-2860	4	4	3.8	0.315	0.079	0.953	0.083	0.021	0	0.000	Q3
86	D. Stoia, R. Pop, A. Campu, M. Nistor, S. Astilean, A. Pintea, M. Suciu, D. Rugina, M. Focsan	Hybrid polymeric therapeutic microcarriers for thermoplasmonic-triggered release of resveratrol	Colloids and Surfaces B: Biointerfaces	2022	220	112915	10.1016/j.colsurfb.2022.112915	0927-7765	9	7	5.999	0.707	0.101	0.857	0.000	0.000	1	0.707	Q1
87	Daria Stoia, Madalina Nistor, Maria Suciu, Raluca Borlan, Andreia Campu, Dumitrita Rugina, Dana Maniu, Simion Astilean, Monica Focsan	NIR photothermal-activatable drug-conjugated microcapsules for in vitro targeted delivery and release: an alternative treatment of diabetic retinopathy	International Journal of Pharmaceutics	2023	635	122700	https://doi.org/10.1016/j.ijpharm.2023.122700	0378-5173	9	7	6.510	0.733	0.105	0.930	0.113	0.016	1	0.733	Q1
88	Zsejke-Réka Tóth, Diána Debreczeni, Tamás Gyulavári, István Székely, Milica Todea, Gábor Kovács, Monica Focsan, Klara Magyari, Lucian Baia, Zsolt Pap, Klara Hernadi	Rapid Synthesis Method of Ag3PO4 as Reusable Photocatalytically Active Semiconductor	Nanomaterials	2023	13	89	10.3390/nano13010089	2079-4991	11	8	5.719	0.738	0.092	0.715	2.000	0.250	0	0.000	Q1
89	R. Bolrlan, O. Soritau, A.M Hada, A. Florea, S. Astilean, M. Focsan	Albumin nanoparticles with tunable ultraviolet-to-red autofluorescence for label-free cell imaging and selective biosensing of copper ion	International Journal of Biological Macromolecules	2023		125129	https://doi.org/10.1016/j.ijbiomac.2023.125129		6	5.5	8.025	0.858	0.156	1.459	0.107	0.019	1	0.858	Q1
									0	0.000		0.000	0.000	0.000	0.000	0.000	0.000	0.000	
											382.835		11.390	67.887	1560.47	337.5854	40	26.091	

Date sintetizate la data: 08/06/2023			Alte date	
Indicatori CNATDCU				
A	Realizat 11.66	Minim 2	Semnatura: 4 se va include semnatura format imagine	Total citari: 1560.471
P	26.091	4		Articole in reviste Q1 49
I	11.390	4		Articole in reviste Q2 19
C	337.585	40		Articole in reviste Q3 13
H	26	10		Articole in reviste Q4 3
			Numar total articole(Q1-84)	
	WOS	Scopus	Google Scholar	
Hirsch	26	27	28	

Q1	49
Q2	19
Q3	13
Q4	3
Altele	0

Punctaj total CNATDCU: T=A+P/2+I/2+C/20+H/5 52.48