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Publications

3,305
Total

From 1637 to 2024

Citing Articles

24,476 Analyze
Total

22,985 Analyze
Without self-citations

Times Cited

31,108
Total

9.41
Average per item

27,443
Without self-citations

64

H-Index

Times Cited and Publications Over Time

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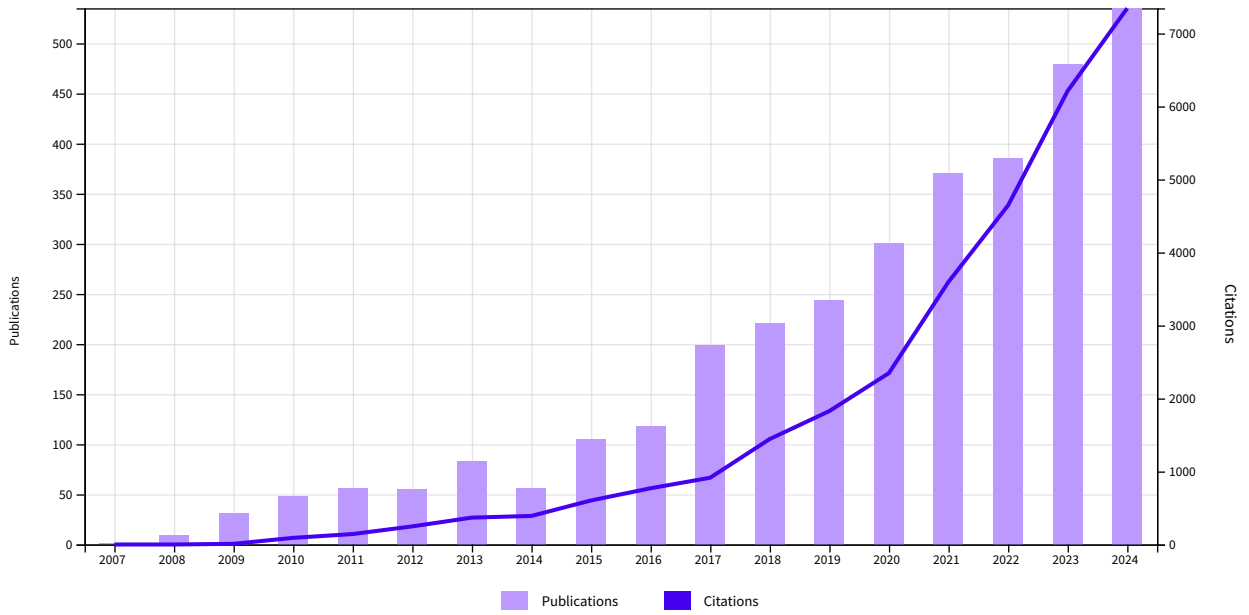

3,305 Publications Citations: highest first 1 of 67

		Citations						
		‹ Previous year				Next year ›	Average per year	Total
		2020	2021	2022	2023	2024		
	Total	2,347	3,596	4,643	6,211	7,344	1,829.88	31,108
1	Emerging pollutants in the environment: present and future challenges in biomonitoring, ecological risks and bioremediation Gavrilescu, M; Demnerová, K; (...); Fava, F	115	122	115	98	83	79.27	872

	Jan 25 2015 | NEW BIOTECHNOLOGY 32 (1) , pp.147-156							
2	Models of few optical cycle solitons beyond the slowly varying envelope approximation Leblond, H and Mihalache, D Feb 2013 | PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS 523 (2) , pp.61-126	44	36	34	35	30	35.15	457
3	An Overview of Oxidative Stress, Neuroinflammation, and Neurodegenerative Diseases Teleanu, DM; Niculescu, AG; (...); Teleanu, RI Jun 2022 | INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 23 (11)	0	0	20	109	201	84.75	339
4	Spin-Forbidden Transitions in the Spectra of Transition Metal Ions and Nephelauxetic Effect Brik, MG; Camardello, SJ; (...); Suchocki, A 2016 | ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY 5 (1) , pp.R3067-R3077	27	37	35	33	17	22.6	226
5	Introduction of the circular economy within developing regions: A comparative analysis of advantages and opportunities for waste valorization Ferronato, N; Rada, EC; (...); Torretta, V Jan 15 2019 | JOURNAL OF ENVIRONMENTAL MANAGEMENT 230 , pp.366-378	35	42	46	46	33	31.57	221
6	Biodegradable Antimicrobial Food Packaging: Trends and Perspectives Motelica, L; Ficai, D; (...); Andronescu, E Oct 2020 | FOODS 9 (10)	2	45	54	60	52	35.83	215
7	Review of hybrid PLGA nanoparticles: Future of smart drug delivery and theranostics medicine Ghitman, J; Biru, EI; (...); Iovu, H Aug 2020 | MATERIALS & DESIGN 193	4	44	53	46	53	33.17	199
8	Burnout syndrome in Romanian medical residents in time of the COVID-19 pandemic Dimitriu, MCT; Pantea-Stoian, A; (...); Socea, B Nov 2020 | MEDICAL HYPOTHESES 144	16	54	56	32	21	29.83	179

9	Experimental energy-dependent nuclear spin distributions von Egidy, T and Bucurescu, D Nov 2009 | PHYSICAL REVIEW C 80 (5)	8	9	13	7	9	10.47	178
10	Arable lands under the pressure of multiple land degradation processes. A global perspective Pravalie, R; Patriche, C; (...); Bandoc, G Mar 2021 | ENVIRONMENTAL RESEARCH 194	0	21	34	58	54	33.4	167
11	Few-optical-cycle solitons: Modified Korteweg-de Vries sine-Gordon equation versus other non-slowly-varying-envelope-approximation models Leblond, H and Mihalache, D Jun 2009 | PHYSICAL REVIEW A 79 (6)	15	8	11	11	14	9.59	163
12	Vector rogue waves in the Manakov system: diversity and compossibility Chen, SH and Mihalache, D May 29 2015 | JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL 48 (21)	17	17	22	20	18	14.73	162
13	Occurrence and Fate of Emerging Pollutants in Water Environment and Options for Their Removal Vasilachi, IC; Asiminicesei, DM; (...); Gavrilescu, M Jan 2021 | WATER 13 (2)	0	16	32	49	59	31.4	157
14	Forecasting municipal solid waste generation using prognostic tools and regression analysis Ghinea, C; Dragoi, EN; (...); Gavrilescu, M Nov 1 2016 | JOURNAL OF ENVIRONMENTAL MANAGEMENT 182 , pp.80-93	22	21	28	17	11	14.7	147
15	MULTIDIMENSIONAL LOCALIZED STRUCTURES IN OPTICS AND BOSE-EINSTEIN CONDENSATES: A SELECTION OF RECENT STUDIES Mihalache, D 2014 | ROMANIAN JOURNAL OF PHYSICS 59 (3-4) , pp.295-312	6	9	8	4	5	11.83	142

16	Neurotransmitters-Key Factors in Neurological and Neurodegenerative Disorders of the Central Nervous System Teleanu, RI; Niculescu, AG; (...); Teleanu, DM Jun 2022 | INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 23 (11)	0	0	4	47	73	32.5	130
17	An Overview of Biopolymeric Electrospun Nanofibers Based on Polysaccharides for Wound Healing Management Iacob, AT; Dragan, M; (...); Lupascu, D Oct 2020 | PHARMACEUTICS 12 (10)	1	25	35	36	28	21	126
18	Spatial assessment of solar energy potential at global scale. A geographical approach Pravalie, R; Patriche, C and Bandoc, G Feb 1 2019 | JOURNAL OF CLEANER PRODUCTION 209 , pp.692-721	19	23	24	27	24	17.71	124
19	Universal decay rule for reduced widths Delion, DS Aug 2009 | PHYSICAL REVIEW C 80 (2)	7	7	5	18	19	7	119
20	A MODIFIED INERTIAL SUBGRADIENT EXTRAGRADIENT METHOD FOR SOLVING PSEUDOMONOTONE VARIATIONAL INEQUALITIES AND COMMON FIXED POINT PROBLEMS Ceng, LC; Petrusel, A; (...); Yao, JC 2020 | FIXED POINT THEORY 21 (1) , pp.93-108	4	17	29	36	32	19.67	118
21	Recent changes in global drylands: Evidences from two major aridity databases Pravalie, R; Bandoc, G; (...); Sternberg, T Jul 2019 | CATENA 178 , pp.209-231	21	28	23	20	19	16.43	115
22	Biodegradable Alginate Films with ZnO Nanoparticles and Citronella Essential Oil-A Novel Antimicrobial Structure Motelica, L; Ficai, D; (...); Holban, AM Jul 2021 | PHARMACEUTICS 13 (7)	0	7	31	37	32	21.4	107
23	Characterization of heavy metal toxicity in some plants and microorganisms-A preliminary approach for environmental bioremediation	12	23	31	23	17	17.83	107

	Diaconu, M; Pavel, LV; (...); Gavrilescu, M May 25 2020 | NEW BIOTECHNOLOGY 56 , pp.130-139							
24	Comparative analysis of crystal field effects and optical spectroscopy of six-coordinated Mn^{4+} ion in the $Y_2Ti_2O_7$ and $Y_2Sn_2O_7$ pyrochlores Brik, MG; Srivastava, AM and Avram, NM Sep 2011 | OPTICAL MATERIALS 33 (11) , pp.1671-1676	8	3	3	5	4	7.13	107
25	Open Problems in Nonlinear Conjugate Gradient Algorithms for Unconstrained Optimization Andrei, N 2011 | BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY 34 (2) , pp.319-330	8	6	10	14	11	6.87	103
26	Amphiphilic Block Copolymers: Their Structures, and Self-Assembly to Polymeric Micelles and Polymersomes as Drug Delivery Vehicles Kuperkar, K; Patel, D; (...); Bahadur, P Nov 2022 | POLYMERS 14 (21)	0	0	0	37	62	25.25	101
27	A perfusion incubator liver chip for 3D cell culture with application on chronic hepatotoxicity testing Yu, F; Deng, RS; (...); Yu, H Nov 6 2017 | SCIENTIFIC REPORTS 7	21	21	18	10	8	11.11	100
28	Innovative Antimicrobial Chitosan/ZnO/Ag NPs/Citronella Essential Oil Nanocomposite - Potential Coating for Grapes Motelica, L; Ficai, D; (...); Andronescu, E Dec 2020 | FOODS 9 (12)	0	18	28	27	24	16.17	97
29	Recent Advances in Manufacturing Innovative Stents Beshchasna, N; Saqib, M; (...); Andronescu, E Apr 2020 | PHARMACEUTICS 12 (4)	6	15	23	24	26	16	96
30	COMPARING ENVIRONMENTAL IMPACTS OF NATURAL INERT AND RECYCLED CONSTRUCTION AND DEMOLITION WASTE PROCESSING USING LCA Simion, IM; Fortuna, ME; (...); Gavrilescu, M 2013	7	23	11	17	6	7.23	94

	JOURNAL OF ENVIRONMENTAL ENGINEERING AND LANDSCAPE MANAGEMENT 21 (4) , pp.273-287							
31	Rhizobacteria and plant symbiosis in heavy metal uptake and its implications for soil bioremediation Sobariu, DL; Fertu, DIT; (...); Gavrilescu, M Oct 25 2017 | NEW BIOTECHNOLOGY 39 , pp.125-134	17	13	13	11	7	10.33	93
32	NONLINEAR OPTICS OF INTENSE FEW-CYCLE PULSES: AN OVERVIEW OF RECENT THEORETICAL AND EXPERIMENTAL DEVELOPMENTS Frantzeskakis, DJ; Leblond, H and Mihalache, D 2014 | ROMANIAN JOURNAL OF PHYSICS 59 (7-8) , pp.767-784	3	2	2	0	1	7.58	91
33	Applications of Chitosan-Alginate-Based Nanoparticles-An Up-to-Date Review Niculescu, AG and Grumezescu, AM Jan 2022 | NANOMATERIALS 12 (2)	0	0	17	34	37	22.25	89
34	Nanostructures: a platform for brain repair and augmentation Vidu, R; Rahman, M; (...); Opris, L 2014 | FRONTIERS IN SYSTEMS NEUROSCIENCE 8	13	13	10	9	4	7.42	89
35	Novel Manifestation of α-Clustering Structures: New "$\alpha+^{208}$Pb" States in ^{212}Po Revealed by Their Enhanced *E*1 Decays Astier, A; Petkov, P; (...); Schuck, P Jan 29 2010 | PHYSICAL REVIEW LETTERS 104 (4)	5	11	3	1	3	5.5	88
36	Antibacterial Biodegradable Films Based on Alginate with Silver Nanoparticles and Lemongrass Essential Oil-Innovative Packaging for Cheese Motelica, L; Ficai, D; (...); Holban, AM Sep 2021 | NANOMATERIALS 11 (9)	0	0	23	33	29	17	85
37	Effects of formation properties in one-proton radioactivity Qi, C; Delion, DS; (...); Wyss, R Jan 30 2012 | PHYSICAL REVIEW C 85 (1)	8	11	14	10	13	5.86	82

38	Bioinspired 3D printable pectin-nanocellulose ink formulations Cernencu, AI; Lungu, A; (...); Iovu, H Sep 15 2019 | CARBOHYDRATE POLYMERS 220 , pp.12-21	13	31	9	14	13	11.57	81
39	Aptamer-Functionalized Liposomes as a Potential Treatment for Basal Cell Carcinoma Cadinoiu, AN; Rata, DM; (...); Popa, M Sep 2019 | POLYMERS 11 (9)	9	22	14	17	19	11.57	81
40	Studies and Investigation about the Attitude towards Sustainable Production, Consumption and Waste Generation in Line with Circular Economy in Romania Lakatos, ES; Cioca, LI; (...); Barsan, G Mar 2018 | SUSTAINABILITY 10 (3)	8	16	18	5	13	10.13	81
41	Modeling and simulation of high pressure water scrubbing technology applied for biogas upgrading Cozma, P; Wukovits, W; (...); Gavrilescu, M Feb 2015 | CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY 17 (2) , pp.373-391	13	9	16	7	6	7.36	81
42	Eco-friendly preparation of electrically conductive chitosan - reduced graphene oxide flexible bionanocomposites for food packaging and biological applications Barra, A; Ferreira, NM; (...); Nunes, C Mar 22 2019 | COMPOSITES SCIENCE AND TECHNOLOGY 173 , pp.53-60	15	22	13	12	14	11.43	80
43	Polypharmacy in Type 2 Diabetes Mellitus: Insights from an Internal Medicine Department Dobrica, EC; Gaman, MA; (...); Diaconu, CC Aug 2019 | MEDICINA-LITHUANIA 55 (8)	14	27	9	14	13	11.29	79
44	Microfluidic Technology for Clinical Applications of Exosomes Iliescu, FS; Vrtacnik, D; (...); Iliescu, C Jun 2019 | MICROMACHINES 10 (6)	11	16	18	16	12	11.29	79

45	Effects of the fractional order and magnetic field on the blood flow in cylindrical domains Shah, NA; Vieru, D and Fetecau, C Jul 1 2016 | JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 409 , pp.10-19	9	14	11	10	7	7.9	79
46	Microelectromechanical Systems (MEMS) for Biomedical Applications Chircov, C and Grumezescu, AM Feb 2022 | MICROMACHINES 13 (2)	0	0	9	29	39	19.25	77
47	Current Strategies to Enhance Delivery of Drugs across the Blood-Brain Barrier Teleanu, RI; Preda, MD; (...); Teleanu, DM May 2022 | PHARMACEUTICS 14 (5)	0	0	9	20	45	18.75	75
48	Drug Delivery System Based on pH-Sensitive Biocompatible Poly(2-vinyl pyridine)-b-poly(ethylene oxide) Nanomicelles Loaded with Curcumin and 5-Fluorouracil Iurciuc-Tincu, CE; Cretan, MS; (...); Ochiuz, L Jul 2020 | POLYMERS 12 (7)	3	22	22	14	14	12.5	75
49	"*In vitro*" behaviour of aptamer-functionalized polymeric nanocapsules loaded with 5-fluorouracil for targeted therapy Rata, DM; Cadinoiu, AN; (...); Popa, M Oct 2019 | MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS 103	11	15	15	14	18	10.57	74
50	Aspects Regarding the Pharmaceutical Waste Management in Romania Bungau, S; Tit, DM; (...); Bustea, C Aug 2018 | SUSTAINABILITY 10 (8)	14	17	9	8	8	9.25	74

Citation Report Publications Table

LUCRĂRI CU AFILIEREA LA AOȘR (2021-2024) CARE AU FACTOR DE IMPACT > 10

Nature Communications (2024) 15:3862 (impact factor=14.7)

A unifying modelling of multiple land degradation pathways in Europe

Remus Prăvălie*, Pasquale Borrelli, Panos Panagos, Cristiano Ballabio, Emanuele Lugato, Adrian Chappell, Gonzalo Miguez-Macho, Federico Maggi, Jian Peng, Mihai Niculiță, Bogdan Roșca, Cristian Patriche, Monica Dumitrașcu, Georgeta Bandoc, Ion-Andrei Nita, Marius-Victor Birsan

https://doi.org/10.1038/s41467-024-48252-x

Chemical Engineering Journal 500, 157152 (2024) (impact factor=13.3)

From pollutants to products: Microbial cell factories driving sustainable biomanufacturing and environmental conservation

Maria Gavrilescu

https://doi.org/10.1016/j.cej.2024.157152

Microfluidic trends in drug screening and drug delivery,

Trends in Analytical Chemistry, vol. 158, 2023, art. no 116821. (impact factor= 11.8)

J. Feng, J. Neuzil, A. Manz, C. Iliescu*, P. Neuzil

https://doi.org/10.1016/j.trac.2022.116821

Journal of Magnesium and Alloys 10 (2022) 3380–3396 (impact factor=17.6)

Evaluation on the corrosion resistance, antibacterial property and osteogenic activity of biodegradable Mg-Ca and Mg-Ca-Zn-Ag alloys

Hewei Chen, Bo Yuan, Rui Zhao, Xiao Yang, Zhanwen Xiao, Antoniac Aurora, Bita Ana Iulia, Xiangdong Zhu*, Antoniac Vasile Iulian*, Xingdong Zhang

https://doi.org/10.1016/j.jma.2021.05.013

Bioactive Materials 6 (2021) 3383–3395 (impact factor=18.9)

In vitro characterization of novel nanostructured collagen-hydroxyapatite composite scaffolds doped with magnesium with improved biodegradation rate for hard tissue regeneration

Iulian V. Antoniac, Aurora Antoniac*, Eugeniu Vasile*, Camelia Tecu, Marco Fosca, Viktoriya G. Yankova, Julietta V. Rau*

https://doi.org/10.1016/j.bioactmat.2021.02.030

Physics Reports 929 (2021) 1–84 (impact factor=30.0)

Equation of Motion Method for strongly correlated Fermi systems and Extended RPA approaches

P. Schuck, D.S. Delion*, J. Dukelsky, M. Jemai, E. Litvinova, G. Röpke, M. Tohyama

https://doi.org/10.1016/j.physrep.2021.06.001

* corresponding author