

Ioan Turcu

List of Publications by Year in descending order

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47
papers

405
citations

758635

12
h-index

794141

19
g-index

48
all docs

48
docs citations

48
times ranked

567
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric field induced rotation of spheres. <i>Journal of Physics A</i> , 1987, 20, 3301-3307.	1.6	48
2	The artifactual nature of stavudine binding to human serum albumin. A fluorescence quenching and isothermal titration calorimetry study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2013, 72, 134-138.	1.4	36
3	Modulating short tryptophan- and arginine-rich peptides activity by substitution with histidine. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1844-1854.	1.1	31
4	Dielectrophoresis: a spherical shell model. <i>Journal of Physics A</i> , 1989, 22, 985-993.	1.6	28
5	Size Dependence of Molecular Self-Assembling in Stacked Aggregates. 1. NMR Investigation of Ciprofloxacin Self-Association. <i>Journal of Physical Chemistry B</i> , 2012, 116, 6488-6498.	1.2	23
6	Adsorption mechanisms of L-Glutathione on Au and controlled nano-patterning through Dip Pen Nanolithography. <i>Materials Science and Engineering C</i> , 2015, 57, 171-180.	3.8	23
7	Electrorotation: a spherical shell model. <i>Journal of Physics A</i> , 1989, 22, 995-1003.	1.6	18
8	Effective phase function for light scattered by blood. <i>Applied Optics</i> , 2006, 45, 639.	2.1	17
9	Molecular Modeling of Phenothiazine Derivatives: Self-Assembling Properties. <i>Journal of Physical Chemistry A</i> , 2010, 114, 12479-12489.	1.1	16
10	High-resolution angle-resolved measurements of light scattered at small angles by red blood cells in suspension. <i>Applied Optics</i> , 2006, 45, 1964.	2.1	15
11	Effective phase function for light scattered by disperse systems—the small-angle approximation. <i>Journal of Optics</i> , 2004, 6, 537-543.	1.5	12
12	Sugar matters: sugar moieties as reactivity-tuning factors in quercetin <i>O</i> -glycosides. <i>Food and Function</i> , 2020, 11, 5293-5307.	2.1	12
13	RWMCS – An alternative random walk Monte Carlo code to simulate light scattering in biological suspensions. <i>Optik</i> , 2007, 118, 232-236.	1.4	11
14	3D silver metallized nanotrenches fabricated by nanoimprint lithography as flexible SERS detection platform. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 276, 121232.	2.0	9
15	Size Dependence of Molecular Self-Assembling in Stacked Aggregates. 2. Heat Exchange Effects. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9083-9093.	1.2	8
16	A generic model for the Fröhlich rate equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 234, 181-186.	0.9	7
17	Characterization of β -cyclodextrin inclusion complex with procaine hydrochloride by ^1H NMR and ITC. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2014, 79, 283-289.	0.9	7
18	Processes in Isotopes and Molecules (PIM 2017), 27–29 September 2017, Cluj- <i>napoca</i> , Romania. <i>Analytical Letters</i> , 2019, 52, 1-4.	1.0	7

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19	Balance equations for physical systems with corpuscular structure. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 227, 81-92.	1.2	6
20	Pore resealing inactivation in electroporated erythrocyte membrane irradiated with electrons. <i>Bioelectrochemistry</i> , 1999, 48, 441-445.	1.0	6
21	Synthesis and structure of new 3,7,10-substituted-phenothiazine derivatives. <i>Open Chemistry</i> , 2009, 7, 111-117.	1.0	6
22	Infrared and UV-Vis spectroscopic study of 3,7,10-substituted-phenothiazine derivatives adsorbed on gold nanoparticles. <i>Journal of Physics: Conference Series</i> , 2009, 182, 012019.	0.3	6
23	Nitrogen Substituted Phenothiazine Derivatives: Modelling of Molecular Self-Assembling. <i>International Journal of Molecular Sciences</i> , 2011, 12, 3102-3116.	1.8	5
24	The Influence of Deposition Rate on the Structure and Morphology of Gold/Silicon(111) Growth by Molecular Beam Epitaxy. <i>Analytical Letters</i> , 2016, 49, 400-410.	1.0	5
25	Click-access to multilayer functionalized Au surface: A terpyridine patterning example. <i>Materials Science and Engineering C</i> , 2017, 75, 1343-1350.	3.8	5
26	Narrowly peaked forward light scattering on particulate media I. Assessment of the multiple scattering contributions to the effective phase function. <i>Journal of Optics</i> , 2008, 10, 015002.	1.5	4
27	Global random walk modelling of transport in complex systems. <i>Computing and Visualization in Science</i> , 2009, 12, 77-85.	1.2	4
28	Microfluidic platform for integrated plasmonic detection in laminal flow. <i>Nanotechnology</i> , 2020, 31, 335502.	1.3	4
29	High-Throughput Fabrication of Anti-Counterfeiting Nanopillar-Based Quick Response (QR) Codes Using Nanoimprint Lithography. <i>Analytical Letters</i> , 2021, 54, 302-313.	1.0	4
30	A laser-like model of vibrational condensation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1986, 116, 429-431.	0.9	3
31	Dimensional distribution of human erythrocytes obtained from electropermeabilization experiments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1995, 1238, 81-85.	1.4	3
32	DFT study on cysteine adsorption mechanism on Au(111) and Au(110). <i>AIP Conference Proceedings</i> , 2013, , .	0.3	3
33	Single-step fabrication of homoepitaxial silicon nanocones by molecular beam epitaxy. <i>Applied Surface Science</i> , 2018, 436, 1163-1172.	3.1	3
34	Quasi-ballistic light scattering – analytical models versus Monte Carlo simulations. <i>Journal of Physics: Conference Series</i> , 2009, 182, 012035.	0.3	2
35	Inclusion complex of benzocaine and β -cyclodextrin: [¹ H NMR and isothermal titration calorimetry studies. , 2013, , .		2
36	Fabrication of Interdigitated Electrodes using Molecular Beam Epitaxy and Optical Lithography. <i>Analytical Letters</i> , 2016, 49, 378-386.	1.0	2

#	ARTICLE	IF	CITATIONS
37	Electromagnetic effects in magnetic superconductors. Physical Review B, 1984, 29, 6213-6217.	1.1	1
38	Narrowly peaked forward light scattering on particulate media: II. Angular spreading of light scattered by polystyrene microspheres. Journal of Optics, 2008, 10, 075007.	1.5	1
39	Isotopic and Elemental Content of Deep-Sea Sediments from the Black Sea. Preliminary Results. Analytical Letters, 2021, 54, 280-294.	1.0	1
40	Photopyroelectric study of thermal parameters of food and biological products. High Temperatures - High Pressures, 1998, 30, 189-194.	0.3	1
41	Self-consistent microscopic approach of the Meissner effect in magnetic superconductors. Physica A: Statistical Mechanics and Its Applications, 1984, 126, 520-528.	1.2	0
42	Effective phase function of light scattered at small angles by polydisperse particulate media. Proceedings of SPIE, 2007, , .	0.8	0
43	A first-principles study of π -conjugated thiol phenothiazine derivatives adsorbed on Au(111) surface. Open Physics, 2009, 7, .	0.8	0
44	Assessment of molecular interaction in a cycluron-cyclodextrin inclusion complex. Journal of Physics: Conference Series, 2009, 182, 012011.	0.3	0
45	Molecular modeling of the weakly bounded dimers of some phenothiazine derivatives. Journal of Physics: Conference Series, 2009, 182, 012001.	0.3	0
46	Processes in Isotopes and Molecules (PIM 2015), 23-25 September 2015, Cluj-Napoca, Romania. Analytical Letters, 2016, 49, 2537-2539.	1.0	0
47	Determination of the Light Hydrocarbons in Sediment Porewater from the Black Sea by Gas Chromatography (GC). Analytical Letters, 2021, 54, 295-301.	1.0	0