

Ioan Turcu

List of Publications by Year in descending order

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47
papers

405
citations

759233

12
h-index

794594

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. Journal of Physics A, 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. Journal of Pharmaceutical and Biomedical Analysis, 2013, 72, 134-138.	2.8	36
3	Modulating short tryptophan- and arginine-rich peptides activity by substitution with histidine. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1844-1854.	2.4	31
4	Dielectrophoresis: a spherical shell model. Journal of Physics A, 1989, 22, 985-993.	1.6	28
5	Size Dependence of Molecular Self-Assembling in Stacked Aggregates. 1. NMR Investigation of Ciprofloxacin Self-Association. Journal of Physical Chemistry B, 2012, 116, 6488-6498.	2.6	23
6	Adsorption mechanisms of l-Glutathione on Au and controlled nano-patterning through Dip Pen Nanolithography. Materials Science and Engineering C, 2015, 57, 171-180.	7.3	23
7	Electrorotation: a spherical shell model. Journal of Physics A, 1989, 22, 995-1003.	1.6	18
8	Effective phase function for light scattered by blood. Applied Optics, 2006, 45, 639.	2.1	17
9	Molecular Modeling of Phenothiazine Derivatives: Self-Assembling Properties. Journal of Physical Chemistry A, 2010, 114, 12479-12489.	2.5	16
10	High-resolution angle-resolved measurements of light scattered at small angles by red blood cells in suspension. Applied Optics, 2006, 45, 1964.	2.1	15
11	Effective phase function for light scattered by disperse systems—the small-angle approximation. Journal of Optics, 2004, 6, 537-543.	1.5	12
12	Sugar matters: sugar moieties as reactivity-tuning factors in quercetin <i>O</i> -glycosides. Food and Function, 2020, 11, 5293-5307.	4.6	12
13	RWMCS – An alternative random walk Monte Carlo code to simulate light scattering in biological suspensions. Optik, 2007, 118, 232-236.	2.9	11
14	3D silver metallized nanotrenches fabricated by nanoimprint lithography as flexible SERS detection platform. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 276, 121232.	3.9	9
15	Size Dependence of Molecular Self-Assembling in Stacked Aggregates. 2. Heat Exchange Effects. Journal of Physical Chemistry B, 2013, 117, 9083-9093.	2.6	8
16	A generic model for the Fröhlich rate equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 234, 181-186.	2.1	7
17	Characterization of β -cyclodextrin inclusion complex with procaine hydrochloride by ^1H NMR and ITC. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2014, 79, 283-289.	1.6	7
18	Processes in Isotopes and Molecules (PIM 2017), 27–29 September 2017, Cluj- Napoca, Romania. Analytical Letters, 2019, 52, 1-4.	1.8	7

#	ARTICLE	IF	CITATIONS
19	Balance equations for physical systems with corpuscular structure. Physica A: Statistical Mechanics and Its Applications, 1996, 227, 81-92.	2.6	6
20	Pore resealing inactivation in electroporated erythrocyte membrane irradiated with electrons. Bioelectrochemistry, 1999, 48, 441-445.	1.0	6
21	Synthesis and structure of new 3,7,10-substituted-phenothiazine derivatives. Open Chemistry, 2009, 7, 111-117.	1.9	6
22	Infrared and UV-Vis spectroscopic study of 3,7,10-substituted-phenothiazine derivatives adsorbed on gold nanoparticles. Journal of Physics: Conference Series, 2009, 182, 012019.	0.4	6
23	Nitrogen Substituted Phenothiazine Derivatives: Modelling of Molecular Self-Assembling. International Journal of Molecular Sciences, 2011, 12, 3102-3116.	4.1	5
24	The Influence of Deposition Rate on the Structure and Morphology of Gold/Silicon(111) Growth by Molecular Beam Epitaxy. Analytical Letters, 2016, 49, 400-410.	1.8	5
25	“Click”-access to multilayer functionalized Au surface: A terpyridine patterning example. Materials Science and Engineering C, 2017, 75, 1343-1350.	7.3	5
26	Narrowly peaked forward light scattering on particulate media I. Assessment of the multiple scattering contributions to the effective phase function. Journal of Optics, 2008, 10, 015002.	1.5	4
27	Global random walk modelling of transport in complex systems. Computing and Visualization in Science, 2009, 12, 77-85.	1.2	4
28	Microfluidic platform for integrated plasmonic detection in laminar flow. Nanotechnology, 2020, 31, 335502.	2.6	4
29	High-Throughput Fabrication of Anti-Counterfeiting Nanopillar-Based Quick Response (QR) Codes Using Nanoimprint Lithography. Analytical Letters, 2021, 54, 302-313.	1.8	4
30	A laser-like model of vibrational condensation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 116, 429-431.	2.1	3
31	Dimensional distribution of human erythrocytes obtained from electroporabilization experiments. Biochimica Et Biophysica Acta - Biomembranes, 1995, 1238, 81-85.	2.6	3
32	DFT study on cysteine adsorption mechanism on Au(111) and Au(110). AIP Conference Proceedings, 2013, , .	0.4	3
33	Single-step fabrication of homoepitaxial silicon nanocones by molecular beam epitaxy. Applied Surface Science, 2018, 436, 1163-1172.	6.1	3
34	Quasi-ballistic light scattering “ analytical models versus Monte Carlo simulations. Journal of Physics: Conference Series, 2009, 182, 012035.	0.4	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. Analytical Letters, 2016, 49, 378-386.	1.8	2

#	ARTICLE	IF	CITATIONS
37	Electromagnetic effects in magnetic superconductors. Physical Review B, 1984, 29, 6213-6217.	3.2	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.	1.8	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.	2.6	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, .	1.7	0
44	Assessment of molecular interaction in a cycluron-cyclodextrin inclusion complex. Journal of Physics: Conference Series, 2009, 182, 012011.	0.4	0
45	Molecular modeling of the weakly bounded dimers of some phenothiazine derivatives. Journal of Physics: Conference Series, 2009, 182, 012001.	0.4	0
46	Processes in Isotopes and Molecules (PIM 2015), 23â€“25 September 2015, Cluj-Napoca, Romania. Analytical Letters, 2016, 49, 2537-2539.	1.8	0
47	Determination of the Light Hydrocarbons in Sediment Porewater from the Black Sea by Gas Chromatography (GC). Analytical Letters, 2021, 54, 295-301.	1.8	0