

Octavian MĂdĂlin Bunoiu

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

541
citations

759190

12
h-index

677123

22
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61
all docs

61
docs citations

61
times ranked

475
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid magnetorheological elastomer: Influence of magnetic field and compression pressure on its electrical conductivity. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 3994-3999.	5.8	101
2	Magnetorheological elastomer based on silicone rubber, carbonyl iron and Rochelle salt: Effects of alternating electric and static magnetic fields intensities. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 37, 312-318.	5.8	41
3	Gas bubbles in shaped sapphire. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2010, 56, 123-145.	4.0	35
4	Magnetodielectric effects in composite materials based on paraffin, carbonyl iron and graphene. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 1323-1327.	5.8	34
5	Formulation and Characterization of Alginate-Based Membranes for the Potential Transdermal Delivery of Methotrexate. <i>Polymers</i> , 2021, 13, 161.	4.5	29
6	Magnetodielectric effects in hybrid magnetorheological suspensions. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 22, 53-62.	5.8	28
7	Concentration distribution of Yb ²⁺ and Yb ³⁺ ions in YbF ₃ :CaF ₂ crystals. <i>Journal of Crystal Growth</i> , 2008, 310, 1476-1481.	1.5	26
8	Fluid flow and solute segregation in EFG crystal growth process. <i>Journal of Crystal Growth</i> , 2005, 275, e799-e805.	1.5	22
9	Nano-ZrO ₂ filled high-density polyethylene composites: Structure, thermal properties, and the influence ¹³ Irradiation. <i>Polymer Degradation and Stability</i> , 2020, 171, 109042.	5.8	20
10	Shear bond strength tests of zirconia veneering ceramics after chipping repair. <i>Journal of Adhesion Science and Technology</i> , 2016, 30, 666-676.	2.6	19
11	Magnetorheological Hybrid Elastomers Based on Silicone Rubber and Magnetorheological Suspensions with Graphene Nanoparticles: Effects of the Magnetic Field on the Relative Dielectric Permittivity and Electric Conductivity. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4201.	4.1	14
12	On the void distribution and size in shaped sapphire crystals. <i>Crystal Research and Technology</i> , 2005, 40, 852-859.	1.3	13
13	Numerical analysis of nanoparticle behavior in a microfluidic channel under dielectrophoresis. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	13
14	Hybrid Magnetorheological Elastomers: Effects of the magnetic field on some electrical properties. <i>Applied Surface Science</i> , 2017, 424, 282-289.	6.1	13
15	Thermodynamic analyses of gases formed during the EFG sapphire growth process. <i>Journal of Crystal Growth</i> , 2005, 275, e1707-e1713.	1.5	12
16	Voids engulfment in shaped sapphire crystals. <i>Journal of Crystal Growth</i> , 2006, 287, 291-295.	1.5	12
17	Numerical Simulation of the Flow Field and Solute Segregation in Edge-Defined Film-Fed Growth. <i>Crystal Research and Technology</i> , 2001, 36, 707.	1.3	11
18	Factors affecting the isotherm shape of semi-transparent BaF ₂ crystals grown by Bridgman method. <i>Journal of Crystal Growth</i> , 2002, 237-239, 1762-1768.	1.5	9

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19	Effects of crucible coating on the quality of multicrystalline silicon grown by a Bridgman technique. Journal of Crystal Growth, 2014, 401, 720-726.	1.5	8
20	Boosting physics education through mobile augmented reality. AIP Conference Proceedings, 2017, , .	0.4	8
21	Investigation of some thermal parameters of ferrofluids in the presence of a static magnetic field. Journal of Magnetism and Magnetic Materials, 2020, 498, 166132.	2.3	8
22	Electrical and Magnetodielectric Properties of Magneto-Active Fabrics for Electromagnetic Shielding and Health Monitoring. International Journal of Molecular Sciences, 2020, 21, 4785.	4.1	8
23	Distribution of Pb ²⁺ ions in PbF ₂ -Doped CaF ₂ Crystals. Acta Physica Polonica A, 2010, 117, 466-470.	0.5	8
24	Preliminary Study for the Preparation of Transmucosal or Transdermal Patches with Acyclovir and Lidocaine. Polymers, 2021, 13, 3596.	4.5	7
25	The implicit effect of texturizing field on the elastic properties of magnetic elastomers revealed by SANS. Journal of Magnetism and Magnetic Materials, 2017, 431, 126-129.	2.3	6
26	Magnetic Field Effects Induced in Electrical Devices Based on Cotton Fiber Composites, Carbonyl Iron Microparticles and Barium Titanate Nanoparticles. Nanomaterials, 2022, 12, 888.	4.1	6
27	Investigation of therapeutic-like irradiation effect on magnetic hyperthermia characteristics of a water-based ferrofluid with magnetite particles. Journal of Magnetism and Magnetic Materials, 2020, 502, 166605.	2.3	5
28	Digital storytelling as a creative teaching method in Romanian science education. AIP Conference Proceedings, 2016, , .	0.4	3
29	Silicone rubber based magnetorheological elastomer: magnetic structure tested by means of neutron depolarization and magnetic force microscopy methods. Journal of Physics: Conference Series, 2017, 848, 012016.	0.4	3
30	Learning science outside the classroom: A summer school experience. AIP Conference Proceedings, 2019, , .	0.4	3
31	Numerical Simulation of Bioparticle Manipulation Using Dielectrophoresis. , 2010, , .		2
32	Effective segregation coefficient of Er ³⁺ ions in ErF ₃ -doped CaF ₂ crystals. Physica Scripta, 2010, 81, 035602.	2.5	2
33	Influence of growth rate on interface shape and grains structure in multicrystalline silicon growth by Bridgman method. , 2012, , .		2
34	Digital Comics, a Visual Method for Reinvigorating Romanian Science Education. Revista Romaneasca Pentru Educatie Multidimensionala, 2019, , 321-341.	0.4	2
35	Segregation coefficient of Yb ³⁺ and Yb ²⁺ ions in YbF ₃ doped BaF ₂ crystals. , 2014, , .		1
36	The Effect of Particle Concentration on the Heating Rate of Ferrofluids for Magnetic Hyperthermia. Annals of West University of Timisoara: Physics, 2015, 58, 81-88.	0.2	1

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37	Nonthermal Argon Plasma Generator and Some Potential Applications. Annals of West University of Timisoara: Physics, 2015, 58, 38-47.	0.2	1
38	Influence of polyols on the formation of nanocrystalline nickel ferrite inside silica matrices. Journal of Crystal Growth, 2017, 457, 294-301.	1.5	1
39	Analytical investigations of adornment pieces from Susani (Timiș County, Romania). Journal of Thermal Analysis and Calorimetry, 2020, 141, 1067-1074.	3.6	1
40	A STUDY CASE FOR THE ACCREDITATION OF DOCTORAL STUDIES. PRELIMINARY APPROACHES. EDULEARN Proceedings, 2018, , .	0.0	1
41	Game-based storytelling in non-formal Romanian science education. AIP Conference Proceedings, 2020, , .	0.4	1
42	Characteristics of late Neolithic pottery of the Zau culture: analysis of pottery samples from Iernut-Site II (Mures County, Romania). Journal of Thermal Analysis and Calorimetry, 0, , 1.	3.6	1
43	Segregation Coefficient of Pb ²⁺ Ions in CaF ₂ Crystals. , 2009, , .		0
44	Some Considerations on the Dynamics of Nanometric Suspensions in Fluid Media. , 2009, , .		0
45	Preface: Physics Conference TIM-10. , 2011, , .		0
46	Interface Shape Studies in Bridgman Growth of Multicrystalline Silicon. , 2011, , .		0
47	Numerical Study Regarding the Influence of Electrodes' Geometry on the Dielectrophoretic Forces. , 2011, , .		0
48	Electrohydrodynamic modeling for manipulation of micro/nano particles in microfluidic systems. , 2012, , .		0
49	Preface: Physics Conference TIM - 11. , 2012, , .		0
50	The Aharonov-Bohm Effect and Transport Properties in Graphene Nanostructures. Annals of West University of Timisoara: Physics, 2013, 57, 86-95.	0.2	0
51	Submicron particle trapping using traveling wave dielectrophoresis. , 2013, , .		0
52	Preface: Physics Conference TIM - 12. , 2013, , .		0
53	Preface: Physics Conference TIM13. , 2014, , .		0
54	Study of a 3D DEP-based microfluidic system for selective nanoparticle manipulation. , 2014, , .		0

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55	Nanoparticles trapping from flue gas using dielectrophoresis. AIP Conference Proceedings, 2015, , .	0.4	0
56	Dielectrophoresis Used for Nanoparticle Manipulation in Microfluidic Devices. , 2015, , 271-301.		0
57	Magnetodielectric membranes: Effects of the magnetic field on the dielectric loss tangent. AIP Conference Proceedings, 2017, , .	0.4	0
58	3rd International Summer School and Workshop "Complex and Magnetic Soft Matter Systems: Physico-Mechanical Properties and Structure". Journal of Physics: Conference Series, 2018, 994, 011001.	0.4	0
59	Magneto-optical transmittance observed in magnetorheological suspensions films. AIP Conference Proceedings, 2020, , .	0.4	0
60	Cavitation Iron Microparticles Generation By Plasma Procedures For Medical Applications. Annals of West University of Timisoara: Physics, 2012, 56, 9-14.	0.2	0
61	Generation of Iron Nano-microparticles for Bio-medical Applications Using Plasma Processes. Revista De Chimie (discontinued), 2017, 68, 1205-1210.	0.4	0