

Cristian Matei

List of Publications by Year in descending order

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74
papers

1,361
citations

331670

21
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395702

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all docs

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docs citations

74
times ranked

1907
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Different Mesoporous Silica Supports for Energy Storage in Shape-Stabilized Phase Change Materials with Dual Thermal Responses. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15177-15184.	3.1	89
2	Polyphenols extract from grape pomace. Characterization and valorisation through encapsulation into mesoporous silica-type matrices. <i>Food and Chemical Toxicology</i> , 2019, 133, 110787.	3.6	63
3	Fast synthesis of rare-earth (Pr ³⁺ , Sm ³⁺ , Eu ³⁺ and Gd ³⁺) doped bismuth ferrite powders with enhanced magnetic properties. <i>Journal of Alloys and Compounds</i> , 2015, 629, 62-68.	5.5	62
4	Thermal decomposition of calcium carbonate polymorphs precipitated in the presence of ammonia and alkylamines. <i>Advanced Powder Technology</i> , 2014, 25, 500-507.	4.1	57
5	Preparation and characterization of BiFeO ₃ ceramic. <i>Progress in Solid State Chemistry</i> , 2007, 35, 193-202.	7.2	56
6	A Review of Composite Phase Change Materials Based on Porous Silica Nanomaterials for Latent Heat Storage Applications. <i>Molecules</i> , 2021, 26, 241.	3.8	52
7	Magnetic nanoparticles coated with polysaccharide polymers for potential biomedical applications. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6169-6180.	1.9	50
8	Box-Behnken experimental design for chromium(VI) ions removal by bacterial cellulose-magnetite composites. <i>International Journal of Biological Macromolecules</i> , 2016, 91, 1062-1072.	7.5	49
9	Pure and doped lanthanum manganites obtained by combustion method. <i>Journal of the European Ceramic Society</i> , 2007, 27, 4395-4398.	5.7	43
10	Heteroatom modified MCM-41-silica carriers for Lomefloxacin delivery systems. <i>Microporous and Mesoporous Materials</i> , 2019, 275, 214-222.	4.4	43
11	Shape-stabilized phase change materials using molten NaNO ₃ + KNO ₃ eutectic and mesoporous silica matrices. <i>Solar Energy Materials and Solar Cells</i> , 2020, 215, 110644.	6.2	36
12	Ordered mesoporous silica and aluminosilicate-type matrix for amikacin delivery systems. <i>Microporous and Mesoporous Materials</i> , 2013, 182, 32-39.	4.4	35
13	Correlation of Mesoporous Silica Structural and Morphological Features with Theoretical Three-Parameter Model for Drug Release Kinetics. <i>Journal of Physical Chemistry C</i> , 2016, 120, 29202-29209.	3.1	33
14	Lanthanum-based perovskites obtained in molten nitrates or nitrites. <i>Progress in Solid State Chemistry</i> , 2007, 35, 203-209.	7.2	32
15	Physicochemical and Biological Properties of Gelatin Extracted from Marine Snail <i>Rapana venosa</i> . <i>Marine Drugs</i> , 2019, 17, 589.	4.6	32
16	Functionalized mesoporous silica as matrix for shape-stabilized phase change materials. <i>International Journal of Heat and Mass Transfer</i> , 2019, 144, 118699.	4.8	30
17	Sinusoidal voltage electrodeposition of PEDOT-Prussian blue nanoparticles composite and its application to amperometric sensing of H ₂ O ₂ in human blood. <i>Materials Science and Engineering C</i> , 2019, 102, 661-669.	7.3	29
18	Tailored doxycycline delivery from MCM-41-type silica carriers. <i>Chemical Papers</i> , 2018, 72, 1869-1880.	2.2	25

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19	Controlling drug release from mesoporous silica through an amorphous, nanoconfined 1-tetradecanol layer. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 127, 318-325.	4.3	25
20	Properties of <i>Salvia officinalis</i> L. and <i>Thymus serpyllum</i> L. Extracts Free and Embedded into Mesopores of Silica and Titania Nanomaterials. <i>Nanomaterials</i> , 2020, 10, 820.	4.1	25
21	Studies on combustion catalytic activity of some pure and doped lanthanum cobaltites. <i>Applied Catalysis B: Environmental</i> , 2008, 84, 758-765.	20.2	24
22	Phase Change Materials Based on Mesoporous Silica. <i>Current Organic Chemistry</i> , 2019, 22, 2644-2663.	1.6	22
23	Pure and doped lanthanum cobaltites obtained by combustion method. <i>Progress in Solid State Chemistry</i> , 2007, 35, 183-191.	7.2	20
24	Influence of structural, textural and surface properties of mesostructured silica and aluminosilicate carriers on aminoglycoside uptake and in vitro delivery. <i>Microporous and Mesoporous Materials</i> , 2015, 206, 150-160.	4.4	20
25	Improving thermal properties of shape-stabilized phase change materials containing lauric acid and mesocellular foam silica by assessing thermodynamic properties of the non-melting layer. <i>Thermochimica Acta</i> , 2018, 660, 70-76.	2.7	20
26	Effect of Nanoconfinement of Polyphenolic Extract from Grape Pomace into Functionalized Mesoporous Silica on Its Biocompatibility and Radical Scavenging Activity. <i>Antioxidants</i> , 2020, 9, 696.	5.1	20
27	Mesoporous Cobalt Ferrite Nanosystems Obtained by Surfactant-Assisted Hydrothermal Method: Tuning Morpho-structural and Magnetic Properties via pH-Variation. <i>Nanomaterials</i> , 2020, 10, 476.	4.1	20
28	Characterization and applications of a new composite material obtained by green synthesis, through deposition of zinc oxide onto calcium carbonate precipitated in green seaweeds extract. <i>Ceramics International</i> , 2018, 44, 4931-4936.	4.8	18
29	Electrochemical Sensing of Caffeic Acid Using Gold Nanoparticles Embedded in Poly(3,4-ethylenedioxythiophene) Layer by Sinusoidal Voltage Procedure. <i>Chemosensors</i> , 2019, 7, 65.	3.6	18
30	Polyphenolic Extract from <i>Sambucus ebulus</i> L. Leaves Free and Loaded into Lipid Vesicles. <i>Nanomaterials</i> , 2020, 10, 56.	4.1	17
31	Tailoring the dissolution rate enhancement of aminoglutethimide by functionalization of MCM-41 silica: a hydrogen bonding propensity approach. <i>RSC Advances</i> , 2015, 5, 2592-2601.	3.6	16
32	Mesostructured silica and aluminosilicate carriers for oxytetracycline delivery systems. <i>International Journal of Pharmaceutics</i> , 2016, 510, 524-531.	5.2	16
33	Calcium carbonate as silver carrier in composite materials obtained in green seaweed extract with topical applications. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 93, 315-323.	2.4	16
34	High temperature shape-stabilized phase change materials obtained using mesoporous silica and NaCl-NaBr-Na ₂ MoO ₄ salt eutectic. <i>Solar Energy Materials and Solar Cells</i> , 2020, 218, 110760.	6.2	16
35	New Composite Nanomaterials with Antimicrobial and Photocatalytic Properties Based on Silver and Zinc Oxide. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 2072-2082.	3.7	15
36	Extracellular matrix biomimetic polymeric membranes enriched with silver nanoparticles for wound healing. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 035010.	3.3	14

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37	Resveratrol Encapsulation and Release from Pristine and Functionalized Mesoporous Silica Carriers. <i>Pharmaceutics</i> , 2022, 14, 203.	4.5	14
38	Synthesis of BaTiO ₃ by soft chemistry routes. <i>Journal of Electroceramics</i> , 2010, 24, 46-50.	2.0	11
39	Azobenzene functionalized mesoporous AlMCM-41-type support for drug release applications. <i>Open Chemistry</i> , 2014, 12, 788-795.	1.9	11
40	Properties of mesostructured silica coated CoFe ₂ O ₄ versus Fe ₃ O ₄ -silica composites. <i>Journal of Alloys and Compounds</i> , 2017, 708, 278-284.	5.5	11
41	Preparation and characterization of BiFeO ₃ nanopowders. <i>European Physical Journal Special Topics</i> , 2005, 128, 7-11.	0.2	10
42	Influence of spectator ions on the reactivity of divalent metal salts in molten alkali metal nitrates. <i>Materials Research Bulletin</i> , 2005, 40, 1-11.	5.2	10
43	The influence of Triton X-100 surfactant on the morphology and properties of zinc sulfide nanoparticles for applications in azo dyes degradation. <i>Materials Chemistry and Physics</i> , 2017, 193, 316-328.	4.0	10
44	Exploiting the zwitterionic properties of lomefloxacin to tailor its delivery from functionalized MCM-41 silica. <i>Microporous and Mesoporous Materials</i> , 2020, 305, 110323.	4.4	10
45	Aluminum doping of mesoporous silica as a promising strategy for increasing the energy storage of shape stabilized phase change materials containing molten NaNO ₃ : KNO ₃ eutectic mixture. <i>Journal of Energy Storage</i> , 2022, 49, 104188.	8.1	9
46	Characterization of BaMg _{1/3} (Ta _{1-x} Nb _x) ₂ /3O ₃ ceramics obtained by a modified Pechini method. <i>Journal of Alloys and Compounds</i> , 2010, 497, 239-243.	5.5	8
47	Mesostructured silica matrix for irinotecan delivery systems. <i>Open Chemistry</i> , 2014, 12, 813-820.	1.9	8
48	Formation of pure-phase W ₂ C nanoparticles through carbothermal reduction in the presence of Pd(0) nanoparticles. <i>Journal of Alloys and Compounds</i> , 2016, 682, 679-685.	5.5	8
49	Norfloxacin delivery systems based on MCM-type silica carriers designed for the treatment of severe infections. <i>Materials Chemistry and Physics</i> , 2019, 238, 121886.	4.0	8
50	Mesoporous Silica as Carrier for Drug-Delivery Systems. , 2019, , 351-374.		8
51	Enhanced Wound Healing Activity of Undenatured Type I Collagen Isolated from Discarded Skin of Black Sea Gilthead Bream (<i>Sparus aurata</i>) Conditioned as 3D Porous Dressing. <i>Chemistry and Biodiversity</i> , 2021, 18, e2100293.	2.1	8
52	Electrochemical and microgravimetric studies of poly[3,4-ethylenedioxythiophene]-tyrosinase biocomposite material electrodeposited onto gold electrodes by a sinusoidal voltages method. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3043-3051.	2.5	7
53	Nanocomposite phase change materials based on NaCl-CaCl ₂ and mesoporous silica. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 2555-2563.	3.6	7
54	Study of the reaction of tungsten carbide in molten alkali metal nitrates. Syntheses of divalent (s and) Tj ETQqO O 0,rgBT /Overlock 10 T	2.9	6

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55	Influence of Synthesis Route on the Structure and Properties of Zinc Oxide Nanoparticles Functionalized with Anthocyanins from Raw Vegetable Extracts. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, P870-P878.	1.8	6
56	Influence of different templates on the morphology of mesoporous aluminas. <i>Open Chemistry</i> , 2012, 10, 1688-1695.	1.9	4
57	Luminescence of Eu-doped langasite nanopowders synthesized by a modified Pechini route. <i>Journal of Luminescence</i> , 2014, 145, 690-696.	3.1	4
58	Correlation of the intracellular reactive oxygen species levels with textural properties of functionalized mesostructured silica. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, n/a-n/a.	4.0	4
59	Mesostructured silica-titania composites for improved oxytetracycline delivery systems. <i>Comptes Rendus Chimie</i> , 2017, 20, 1017-1025.	0.5	4
60	Synthesis of $\text{La}_{1-x}\text{Sr}_x\text{MO}_3$ (M=Mn, Fe, Co, Ni) nanopowders by alanine-combustion technique. <i>Journal of the European Ceramic Society</i> , 2010, 30, 617-622.	5.7	3
61	Mesoporous Silica and Titania-Based Materials for Stability Enhancement of Polyphenols. <i>Materials</i> , 2021, 14, 6457.	2.9	3
62	Molten salt synthesis of lanthanum cuprate, La_2CuO_4 . <i>Journal of Electroceramics</i> , 2010, 24, 64-66.	2.0	2
63	Upconversion luminescence of $\text{Er}^{3+}/\text{Yb}^{3+}$ co-doped nanolangasite synthesized by a modified Pechini route. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 64, 667-672.	2.4	2
64	Effect of Aluminum Incorporation into Mesoporous Aluminosilicate Framework on Drug Release Kinetics. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-9.	2.7	2
65	Microwave Assisted Fischer - Tropsch Synthesis at a Atmospheric Pressure. <i>Revista De Chimie (discontinued)</i> , 2017, 68, 1040-1043.	0.4	2
66	Utilization of Dielectric Properties Assessment To Evaluate the Catalytic Activity and Rate of Deactivation of Heterogeneous Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 1940-1947.	3.7	1
67	Silica-Alginate Beads for Intestinal Ketoprofen Delivery. <i>Revista De Chimie (discontinued)</i> , 2019, 69, 3416-3422.	0.4	1
68	On the ultrasound-assisted preparation of Cu/SiO_2 system as a selective catalyst for the conversion of biobutanol to butanal. <i>Chemical Papers</i> , 2022, 76, 1443-1455.	2.2	1
69	High Temperature Nanocomposite Phase Change Materials Containing Mesoporous Silica Matrices. <i>Proceedings (mdpi)</i> , 2019, 29, .	0.2	0
70	Embedding Polyphenols Extract from Grape Marc into Inorganic Supports with Enhanced Stability. <i>Proceedings (mdpi)</i> , 2019, 29, 38.	0.2	0
71	Influence of Mesoporous Silica Functionalization and Pore Size on Resveratrol Release Profiles. <i>Proceedings (mdpi)</i> , 2019, 29, .	0.2	0
72	Properties of Free and Embedded Extracts from Different Grape Pomace into Mesoporous Inorganic Matrices. <i>Proceedings (mdpi)</i> , 2020, 57, 78.	0.2	0

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73	Characterization of Novel Hybrid Materials Conditioned as Sheets for Skin Repair. Proceedings (mdpi), 2019, 29, .	0.2	0
74	Design of Nanoplatforms for Targeted Delivery of Irinotecan. , 2022, 7, .		0