Mehdi Mazaheri

List of Publications by Year
in descending order

67 papers	2,742 citations	185998 28 h-index	182168 51 g-index
68 all docs	68 docs citations	68 times ranked	3162 citing authors

#	Article	IF	Citations
1	Densification and grain growth of nanocrystalline 3Y-TZP during two-step sintering. Journal of the European Ceramic Society, 2008, 28, 2933-2939.	2.8	152
2	Preparation of ZnO nanoparticles from [bis(acetylacetonato)zinc(II)]â€“oleylamine complex by thermal decomposition. Materials Letters, 2008, 62, 1890-1892.	1.3	134
3	Preparation of cobalt nanoparticles from [bis(salicylidene)cobalt(II)]â€“oleylamine complex by thermal decomposition. Journal of Magnetism and Magnetic Materials, 2008, 320, 575-578.	1.0	133
4	Flexible bactericidal graphene oxideâ€“chitosan layers for stem cell proliferation. Applied Surface Science, 2014, 301, 456-462.	3.1	126
5	Multi-walled carbon nanotube/nanostructured zirconia composites: Outstanding mechanical properties in a wide range of temperature. Composites Science and Technology, 2011, 71, 939-945.	3.8	121
6	Synthesis of Mn3O4 nanoparticles by thermal decomposition of a [bis(salicylidiminato)manganese(II)] complex. Polyhedron, 2008, 27, 3467-3471.	1.0	120
7	Preparation of NiO nanoparticles from metal-organic frameworks via a solid-state decomposition route. Inorganica Chimica Acta, 2009, 362, 3691-3697.	1.2	120
8	Synthesis and characterization of ZnS nanoclusters via hydrothermal processing from [bis(salicylidene)zinc(II)]. Journal of Alloys and Compounds, 2009, 470, 502-506.	2.8	116
9	Effect of a novel sintering process on mechanical properties of hydroxyapatite ceramics. Journal of Alloys and Compounds, 2009, 471, 180-184.	2.8	101
10	Reverse precipitation synthesis and characterization of CeO2 nanopowder. Journal of Alloys and Compounds, 2010, 491, 499-502.	2.8	97
11	Suppression of grain growth in sub-micrometer alumina via two-step sintering method. Journal of the European Ceramic Society, 2009, 29, 1371-1377.	2.8	93
12	Two-step sintering of nanocrystalline 8Y2O3 stabilized ZrO2 synthesized by glycine nitrate process. Ceramics International, 2009, 35, 13-20.	2.3	88
13	Master sintering curves of a nanoscale 3Y-TZP powder compacts. Ceramics International, 2009, 35, 547-554.	2.3	82
14	Processing of yttria stabilized zirconia reinforced with multi-walled carbon nanotubes with attractive mechanical properties. Journal of the European Ceramic Society, 2011, 31, 2691-2698.	2.8	80
15	Processing of nanocrystalline 8mol% yttria-stabilized zirconia by conventional, microwave-assisted and two-step sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 492, 261-267.	2.6	79
16	Sintering of titania nanoceramic: Densification and grain growth. Ceramics International, 2009, 35, 685-691.	2.3	78
17	Electrodeposition of graphite-brass composite coatings and characterization of the tribological properties. Surface and Coatings Technology, 2001, 148, 71-76.	2.2	64
18	Synthesis, characterization and magnetic properties of NiS1+x nanocrystals from [bis(salicylidene)nickel(II)] as new precursor. Materials Research Bulletin, 2009, 44, 2246-2251.	2.7	61

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19	Stable Plasmonic-Improved dye Sensitized Solar Cells by Silver Nanoparticles Between Titanium Dioxide Layers. Electrochimica Acta, 2015, 152, 101-107.	2.6	55
20	Evaluation of management practices on agricultural nonpoint source pollution discharges into the rivers under climate change effects. Science of the Total Environment, 2022, 838, 156643.	3.9	54
21	Wear and friction characteristics of electrodeposited graphiteâ€"bronze composite coatings. Surface and Coatings Technology, 2005, 190, 32-38.	2.2	49
22	Location and release time identification of pollution point source in river networks based on the Backward Probability Method. Journal of Environmental Management, 2016, 180, 164-171.	3.8	47
23	Prediction of electrical conductivity of polymer-graphene nanocomposites by developing an analytical model considering interphase, tunneling and geometry effects. Composites Communications, 2020, 21, 100364.	3.3	45
24	Electrodeposition of graphite-bronze composite coatings and study of electroplating characteristics. Surface and Coatings Technology, 2004, 187, 293-299.	2.2	43
25	Hot pressing of nanocrystalline zinc oxide compacts: Densification and grain growth during sintering. Ceramics International, 2009, 35, 991-995.	2.3	34
26	A developed theoretical model for effective electrical conductivity and percolation behavior of polymer-graphene nanocomposites with various exfoliated filleted nanoplatelets. Carbon, 2020, 169, 264-275.	5.4	32
27	Enhanced electrical conductivity of ultrafine-grained 8Y2O3 stabilized ZrO2 produced by two-step sintering technique. Journal of Alloys and Compounds, 2010, 494, 362-365.	2.8	31
28	Mathematical Model for Pollution Source Identification in Rivers. Environmental Forensics, 2015, 16, 310-321.	1.3	31
29	Microstructural evolution of a commercial ultrafine alumina powder densified by different methods. Journal of the European Ceramic Society, 2011, 31, 2593-2599.	2.8	30
30	The Effect of Conformation Method and Sintering Technique on the Densification and Grain Growth of Nanocrystalline 8 mol% Yttriaâ€Stabilized Zirconia. Journal of the American Ceramic Society, 2009, 92, 990-995.	1.9	26
31	High/room temperature mechanical properties of 3Y-TZP/CNTs composites. Ceramics International, 2014, 40, 3347-3352.	2.3	25
32	Electrical behavior of nano-polycrystalline (La1â^'yKy)0.7Ba0.3MnO3 manganites. Journal of Magnetism and Magnetic Materials, 2010, 322, 3255-3261.	1.0	23
33	Introducing a general framework for pollution source identification in surface water resources (theory and application). Journal of Environmental Management, 2019, 248, 109281.	3.8	21
34	Inverse modeling of contaminant transport for pollution source identification in surface and groundwaters: a review. Groundwater for Sustainable Development, 2021, 15, 100651.	2.3	21
35	Sintering behavior of nano alumina powder shaped by pressure filtration. Ceramics International, 2011, 37, 9-14.	2.3	20
36	Processing, phase evaluation and mechanical properties of MoSi2 doped 4TaCâ€"HfC based UHTCs consolidated by spark plasma sintering. International Journal of Refractory Metals and Hard Materials, 2016, 56, 1-7.	1.7	20

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37	Preparation and characterization of nano-polycrystalline lanthanum-based manganite. Physica B: Condensed Matter, 2010, 405, 72-76.	1.3	19
38	Investigating the restoration of Lake Urmia using a numerical modellingÂapproach. Journal of Great Lakes Research, 2019, 45, 87-97.	0.8	19
39	Tunable optical response and fast (slow) light in optomechanical system with phonon pump. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 442, 128181.	0.9	19
40	Sintering behavior of an ultrafine alumina powder shaped by pressure filtration and dry pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3807-3812.	2.6	18
41	Finite elements based approaches for the modelling of radial crack formation upon Vickers indentation in silicon nitride ceramics. Journal of the European Ceramic Society, 2019, 39, 4011-4022.	2.8	18
42	The effect of processing conditions on the microstructure and impact behavior of melt infiltrated Al/SiCp composites. Ceramics International, 2011, 37, 3335-3341.	2.3	17
43	In vitro biocompatibility and ageing of 3Y-TZP/CNTs composites. Ceramics International, 2015, 41, 12773-12781.	2.3	16
44	A comprehensive one-dimensional numerical model for solute transport in rivers. Hydrology and Earth System Sciences, 2017, 21, 99-116.	1.9	16
45	Controllable Synthesis of Covellite Nanoparticles via Thermal Decomposition Method. Journal of Cluster Science, 2016, 27, 593-602.	1.7	15
46	Solving Inverse Problems of Unknown Contaminant Source in Groundwater-River Integrated Systems Using a Surrogate Transport Model Based Optimization. Water (Switzerland), 2020, 12, 2415.	1.2	15
47	Processing and impact behavior of Al/SiCp composites fabricated by the pressureless melt infiltration method. Ceramics International, 2009, 35, 1919-1926.	2.3	14
48	Field-assisted/spark plasma sintering behavior of CNT-reinforced zirconia composites: A comparative study between model and experiments. Journal of the European Ceramic Society, 2015, 35, 4241-4249.	2.8	12
49	Thermal decomposition of [bis(salicylaldehydato)cadmium(II)] to CdS nanocrystals. Polyhedron, 2009, 28, 3975-3978.	1.0	11
50	Management scenarios methodology for salinity control in rivers (case study: Karoon River, Iran). Journal of Water Supply: Research and Technology - AQUA, 2019, 68, 74-86.	0.6	11
51	Simultaneous synthesis and single-step sintering of lead magnesium niobate ceramic using mixed nanopowders. Ceramics International, 2009, 35, 1139-1144.	2.3	10
52	Analytical study on the incorporation of zirconia-based ceramics with carbon nanotubes: Dispersion methods and mechanical properties. Ceramics International, 2016, 42, 1653-1659.	2.3	8
53	3D characterisation of indentation induced sub-surface cracking in silicon nitride using FIB tomography. Journal of the European Ceramic Society, 2019, 39, 3620-3626.	2.8	8
54	Mapping QTL for Fusarium head blight resistance in a tunisian-derived durum wheat population. Cereal Research Communications, 2019, 47, 78-87.	0.8	7

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55	Introducing a new method for calculating the spatial and temporal distribution of pollutants in rivers. International Journal of Environmental Science and Technology, 2021, 18, 3777-3794.	1.8	7
56	A comparison of He and Ne FIB imaging of cracks in microindented silicon nitride. Materials Characterization, 2018, 141, 362-369.	1.9	6
57	High Temperature Mechanical Spectroscopy Study of 3 mol% Yttria Stabilized Tetragonal Zirconia Reinforced with Carbon Nanotubes. Solid State Phenomena, 0, 184, 265-270.	0.3	5
58	Epidermal growth factor receptor gene expression evaluation in colorectal cancer patients. Indian Journal of Cancer, 2014, 51, 358.	0.2	4
59	High-Temperature Mechanical Spectroscopy of Nitrogen-Rich Ca-Î±-SiAlON Ceramics. Journal of the American Ceramic Society, 2011, 94, 1536-1545.	1.9	3
60	The effect of neglecting spatial variations of the parameters in pollutant transport modeling in rivers. Environmental Fluid Mechanics, 2021, 21, 587-603.	0.7	3
61	Mathematical model of solute transport in rivers with storage zones using nonlinear dispersion flux approach. Hydrological Sciences Journal, 2022, 67, 1656-1668.	1.2	3
62	Two-dimensional mechanism of electrical conductivity in Gd1â^'xCexBa2Cu3O7â^'Î´. Journal of Physics Condensed Matter, 2008, 20, 345221.	0.7	2
63	An innovative framework for real-time monitoring of pollutant point sources in river networks. Stochastic Environmental Research and Risk Assessment, 2022, 36, 1791-1818.	1.9	2
64	Structural and electrical transport properties of hexagonal 4H BaRu1â^'xMnxO3 perovskite. Physica B: Condensed Matter, 2011, 406, 3363-3366.	1.3	1
65	Shoreline spatial and temporal response to natural and human effects in Boujagh National Park, Iran. International Journal of Sediment Research, 2021, 36, 582-592.	1.8	1
66	Effect of Ca substitution on crystal structure and superconducting properties of ferromagnetic superconductor RuSr2â^'xCaxGd1.4Ce0.6Cu2<mml:math altimg="si0030.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/ta. Journal of Magnetism and Magnetic Materials, 201	1.0	0
67	Level shifting circuit for hybrid superconductor-to-semiconductor interface. Physica C: Superconductivity and Its Applications, 2018, 552, 57-60.	0.6	0