

# Ali Nemati

## List of Publications by Year in descending order

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118  
papers

2,631  
citations

185998

28  
h-index

233125

45  
g-index

119  
all docs

119  
docs citations

119  
times ranked

3122  
citing authors

#	ARTICLE	IF	CITATIONS
1	Implementation effect of specialist residency program: A case study on performance indicators of emergency departments. <i>International Journal of Healthcare Management</i> , 2020, 13, 347-356.	1.2	2
2	A new approach for solving infinite horizon optimal control problems using Laguerre functions and Ritz spectral method. <i>International Journal of Computer Mathematics</i> , 2020, 97, 1529-1544.	1.0	8
3	The effect of mixing molar ratios and sand particles on microstructure and mechanical properties of metakaolin-based geopolymers. <i>Materials Chemistry and Physics</i> , 2020, 240, 122223.	2.0	32
4	Comparison between electrochemical and photoelectrochemical detection of dopamine based on titania-ceria-graphene quantum dots nanocomposite. <i>Biosensors and Bioelectronics</i> , 2020, 151, 111977.	5.3	58
5	Effect of YSZ sol-gel coating on interaction of Crofer22 APU with sealing glass for solid oxide fuel/electrolysis cell. <i>Journal of Alloys and Compounds</i> , 2020, 847, 156496.	2.8	10
6	Synthesis and characterization of rGO/Fe <sub>2</sub> O <sub>3</sub> nanocomposite as an efficient supercapacitor electrode material. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 14998-15005.	1.1	15
7	Hydrophobic octadecylamine-functionalized graphene/TiO <sub>2</sub> hybrid coating for corrosion protection of copper bipolar plates in simulated proton exchange membrane fuel cell environment. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15380-15389.	3.8	46
8	Magnetic CoFe <sub>2</sub> O <sub>4</sub> nanoparticles doped with metal ions: A review. <i>Ceramics International</i> , 2020, 46, 18391-18412.	2.3	155
9	The Use of the Ritz Method and Laplace Transform for Solving 2D Fractional-Order Optimal Control Problems Described by the Roesser Model. <i>Asian Journal of Control</i> , 2019, 21, 1189-1201.	1.9	9
10	Grain growth kinetics and electrical properties of CuO doped SnO <sub>2</sub> -based varistors. <i>Journal of Alloys and Compounds</i> , 2019, 770, 784-791.	2.8	14
11	Effect of massive potentials and the Gauss-Bonnet gravity on the holographic thermalization. <i>International Journal of Modern Physics A</i> , 2019, 34, 1950124.	0.5	0
12	SiC fines effects on the microstructure and properties of bauxite-based low-cement refractory castables. <i>Ceramics International</i> , 2019, 45, 16338-16346.	2.3	3
13	Gel combustion synthesis of fluorine-doped tin oxide and its characteristics: applying D-optimal factorial design of experiment. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	0.8	1
14	Pressureless sintering of ZrB <sub>2</sub> ceramics codoped with TiC and graphite. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019, 81, 189-195.	1.7	68
15	Photocatalytic and photoluminescence properties of ZnO/graphene quasi core-shell nanoparticles. <i>Ceramics International</i> , 2019, 45, 8945-8961.	2.3	21
16	Dispute in photocatalytic and photoluminescence behavior in ZnO/graphene oxide core-shell nanoparticles. <i>Materials Letters</i> , 2019, 240, 117-120.	1.3	6
17	Phase and microstructural evolution of low carbon MgO-C refractories with addition of Fe-catalyzed phenolic resin. <i>Ceramics International</i> , 2019, 45, 3390-3406.	2.3	38
18	The role of oxygen defects in magnetic properties of gamma-irradiated reduced graphene oxide. <i>Journal of Alloys and Compounds</i> , 2019, 784, 134-148.	2.8	22

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19	Microstructural, optical, and electrical characteristics of Ni/C doped BST thin films. <i>Ceramics International</i> , 2019, 45, 5503-5510.	2.3	11
20	Effect of BN whisker-like additive on the flexural strength of Si <sub>3</sub> N <sub>4</sub> ceramics prepared by gel casting method. <i>Journal of Ceramic Processing Research</i> , 2019, 20, 121-126.	0.4	0
21	Hydrothermal synthesis of TiO <sub>2</sub> nanorod for using as an electron transport material in perovskite solar cells. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	10
22	Conventional and two step sintering of PZT-PCN ceramics. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	6
23	Synthesis and properties of Ce-doped TiO <sub>2</sub> -reduced graphene oxide nanocomposite. <i>Journal of Alloys and Compounds</i> , 2018, 742, 986-995.	2.8	35
24	Catalytic graphitization behavior of phenolic resins by addition of in situ formed nano-Fe particles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 101, 50-61.	1.3	32
25	Numerical solution of 2D fractional optimal control problems by the spectral method along with Bernstein operational matrix. <i>International Journal of Control</i> , 2018, 91, 2632-2645.	1.2	14
26	Recent Advancements in Bulk Metallic Glasses and Their Applications: A Review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2018, 43, 233-268.	6.8	170
27	Doxorubicin-conjugated D-glucosamine- and folate- bi-functionalised InP/ZnS quantum dots for cancer cells imaging and therapy. <i>Journal of Drug Targeting</i> , 2018, 26, 267-277.	2.1	51
28	Projective Synchronization of Piecewise Nonlinear Chaotic Maps. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2018, 197, 1856-1864.	0.3	0
29	Reduced graphene oxide: An alternative for Magnetic Resonance Imaging contrast agent. <i>Materials Letters</i> , 2018, 233, 363-366.	1.3	9
30	Magnetron-sputtered Ti <sub>x</sub> Ny thin films applied on titanium-based alloys for biomedical applications: Composition-microstructure-property relationships. <i>Surface and Coatings Technology</i> , 2018, 349, 251-259.	2.2	56
31	A comparative evaluation of the additional impact of nanometer-sized tetravalent oxides on the performance of Dolomite-Magnesia ceramic refractories. <i>Ceramics International</i> , 2018, 44, 2058-2064.	2.3	12
32	Interactions near the triple-phase boundaries metal/glass/air in planar solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5306-5314.	3.8	13
33	Microwave-assisted sintering of Al <sub>2</sub> O <sub>3</sub> -MWCNT nanocomposites. <i>Ceramics International</i> , 2017, 43, 6105-6109.	2.3	13
34	Influence of synthesis variables on the properties of barium hexaferrite nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 4606-4612.	1.1	5
35	Performance improvement of MgO-CaO refractories by the addition of nano-sized Al <sub>2</sub> O <sub>3</sub> . <i>Materials Chemistry and Physics</i> , 2017, 198, 354-359.	2.0	40
36	Fabrication of SiC body by microwave sintering process. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 5675-5685.	1.1	4

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37	Effects of Fe <sub>2</sub> O <sub>3</sub> content on ionic conductivity of Li <sub>2</sub> O-TiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> glasses and glass-ceramics. <i>Materials Chemistry and Physics</i> , 2017, 190, 8-16.	2.0	15
38	Preparation, magnetic properties, and photocatalytic performance under natural daylight irradiation of Fe <sub>3</sub> O <sub>4</sub> -ZnO core/shell nanoparticles designed on reduced GO platelet. <i>Materials Science in Semiconductor Processing</i> , 2017, 72, 85-92.	1.9	33
39	Buckling analysis of circular functionally graded plate under uniform radial compression including shear deformation with linear and quadratic thickness variation on the Pasternak elastic foundation. <i>Applied Mathematical Modelling</i> , 2017, 41, 494-507.	2.2	25
40	The Effect of Fatty Amine Chain Length on Synthesis Process of Inp/Zns Quantum Dots. <i>Oriental Journal of Chemistry</i> , 2016, 32, 2163-2169.	0.1	8
41	Effect of Samarium Oxide on the Electrical Conductivity of Plasma-Sprayed SOFC Anodes. <i>Jom</i> , 2016, 68, 2569-2573.	0.9	6
42	Molten salt synthesis of a SiC coating on graphite flakes for application in refractory castables. <i>Ceramics International</i> , 2016, 42, 11951-11957.	2.3	35
43	An Efficient Numerical Solution of Fractional Optimal Control Problems by using the Ritz Method and Bernstein Operational Matrix. <i>Asian Journal of Control</i> , 2016, 18, 2272-2282.	1.9	34
44	Densification and Properties of Fe <sub>2</sub> O <sub>3</sub> Nanoparticles added CaO Refractories. <i>Ceramics International</i> , 2016, 42, 12270-12275.	2.3	42
45	New Bi-Gravity from New Massive Gravity. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	4
46	Inequalities in the Distribution of Health Care Facilities. <i>Journal of Health Management</i> , 2016, 18, 295-304.	0.4	7
47	Microwave absorption properties of Ti <sup>2+</sup> Zn substituted strontium hexaferrite. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 1901-1905.	1.1	7
48	A Numerical Method for Solving Fractional Optimal Control Problems Using Ritz Method. <i>Journal of Computational and Nonlinear Dynamics</i> , 2016, 11, .	0.7	18
49	Porous Ti <sub>6</sub> Al <sub>4</sub> V scaffolds for dental implants: Microstructure, mechanical, and corrosion behavior. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2016, 230, 927-933.	0.7	3
50	Cold compaction behavior and pressureless sinterability of ball milled WC and WC/Cu powders. <i>Science of Sintering</i> , 2016, 48, 71-79.	0.5	4
51	Death portrait of Isfahan Province in years 2007-2011. <i>International Journal of Preventive Medicine</i> , 2016, 7, 96.	0.2	2
52	Corrosion protection of 1050 aluminium alloy using a smart self-cleaning TiO <sub>2</sub> @CNT coating. <i>Surface and Coatings Technology</i> , 2015, 275, 224-231.	2.2	15
53	Synthesis of Ca <sup>2+</sup> Na <sup>+</sup> Y tri-doped TiO <sub>2</sub> photo-catalyst for MO degradation and characterization. <i>Materials Research Express</i> , 2015, 2, 105011.	0.8	6
54	Effects of Ce <sup>2+</sup> Co substitution on structural, magnetic and dielectric properties of M-type barium hexaferrite nanoparticles synthesized by sol-gel auto-combustion route. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 2134-2144.	1.1	39

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55	Comprehensive study on the effect of SiC and carbon additives on the pressureless sintering and microstructural and mechanical characteristics of new ultra-high temperature ZrB <sub>2</sub> ceramics. <i>Ceramics International</i> , 2015, 41, 11456-11463.	2.3	30
56	Dielectric and piezoelectric properties of porous PZT/PCN ceramics sintered at different temperatures. <i>Materials Letters</i> , 2015, 151, 85-88.	1.3	18
57	Effects of processing conditions on the physico-chemical characteristics of titanium dioxide ultra-thin films deposited by DC magnetron sputtering. <i>Ceramics International</i> , 2015, 41, 7977-7981.	2.3	10
58	Effect of intermediate nickel layer on seal strength and chemical compatibility of glass and ferritic stainless steel in oxidizing environment for solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16434-16442.	3.8	13
59	Effect of working pressure and annealing temperature on microstructure and surface chemical composition of barium strontium titanate films grown by pulsed laser deposition. <i>Bulletin of Materials Science</i> , 2015, 38, 1645-1650.	0.8	30
60	Influence of Fe <sub>2</sub> O <sub>3</sub> on non-isothermal crystallization kinetics and microstructure of lithium titanium phosphate glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2015, 408, 130-136.	1.5	17
61	One-pot synthesis of ZnO nanoparticles and submicron-aggregates for dye-sensitized solar cells. <i>Materials Letters</i> , 2015, 139, 433-436.	1.3	5
62	An Analysis of Disparities in Access to Health Care in Iran: Evidence from Lorestan Province. <i>Global Journal of Health Science</i> , 2014, 6, 81-6.	0.1	6
63	Nanothickness films, nanostructured films, and nanocrystals of barium titanate obtained directly by a newly developed sol-gel synthesis pathway. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 5345-5355.	1.1	23
64	Effect of Ti/Zn substitution on structural, magnetic and microwave absorption characteristics of strontium hexaferrite. <i>Journal of Alloys and Compounds</i> , 2014, 583, 325-328.	2.8	96
65	Attitude of Iranian physicians and nurses toward a clinical decision support system for pulmonary embolism and deep vein thrombosis. <i>Computer Methods and Programs in Biomedicine</i> , 2014, 115, 95-101.	2.6	10
66	Evaluation of ascorbic acid-loaded calcium phosphate bone cements: Physical properties and in vitro release behavior. <i>Ceramics International</i> , 2014, 40, 3961-3968.	2.3	19
67	Synthesis and characterization of co-doped TiO <sub>2</sub> thin films on glass-ceramic. <i>Materials Science in Semiconductor Processing</i> , 2014, 26, 41-48.	1.9	15
68	Enhancing glass ionomer cement features by using the HA/YSZ nanocomposite: A feed forward neural network modelling. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 29, 317-327.	1.5	25
69	Crack-free nanostructured BaTiO <sub>3</sub> thin films prepared by sol-gel dip-coating technique. <i>Ceramics International</i> , 2014, 40, 8613-8619.	2.3	61
70	Improving CNT distribution and mechanical properties of MWCNT reinforced alumina matrix. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 617, 110-114.	2.6	22
71	Optimization of the magnetic properties and microstructure of Co <sup>2+</sup> /La <sup>3+</sup> substituted strontium hexaferrite by varying the production parameters. <i>Ceramics International</i> , 2014, 40, 5675-5680.	2.3	16
72	Effect of simultaneous chemical substitution of A and B sites on the electronic structure of BiFeO <sub>3</sub> films grown on BaTiO <sub>3</sub> /SiO <sub>2</sub> /Si substrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 2128-2134.	1.1	26

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73	The effect of functionalisation method on the stability and the thermal conductivity of nanofluid hybrids of carbon nanotubes/gamma alumina. <i>Ceramics International</i> , 2013, 39, 3885-3891.	2.3	168
74	Synthesis of nanocrystalline Ni/Ce-YSZ powder via a polymerization route. <i>Materials Science-Poland</i> , 2013, 31, 343-349.	0.4	0
75	Effect of chemical substitution on the morphology and optical properties of Bi <sub>1-x</sub> CaxFeO <sub>3</sub> films grown by pulsed-laser deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 248-252.	1.1	23
76	Synthesis and characterisation of $\beta$ -tricalcium phosphate coating on zirconia toughened alumina by biomimetic method. <i>Advances in Applied Ceramics</i> , 2013, 112, 140-145.	0.6	2
77	Autologous Blood Injection for Treatment of Tennis Elbow. <i>Trauma Monthly</i> , 2013, 17, 393-5.	0.2	9
78	In Reply to: Queries Regarding Local Erythropoietin Injection in Tibiofibular Fracture Healing. <i>Trauma Monthly</i> , 2013, 18, 103-104.	0.2	1
79	Application of Removable Wrist Splint in the Management of Distal Forearm Torus Fractures. <i>Trauma Monthly</i> , 2013, 17, 370-2.	0.2	18
80	Deep Vein Thrombosis Following Below Knee Immobilization : The Need for Chemoprophylaxis. <i>Trauma Monthly</i> , 2013, 17, 367-9.	0.2	11
81	Oxygen diffusion mechanism in MgO-C composites: an artificial neural network approach. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2012, 20, 015016.	0.8	1
82	Crystallization Behavior of Mica Glass-Ceramics with Nanophase Structure. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2012, 42, 420-423.	0.6	0
83	Synthesis and crystallization of lead-zirconium-titanate (PZT) nanotubes at the low temperature using carbon nanotubes (CNTs) as sacrificial templates. <i>Advanced Powder Technology</i> , 2012, 23, 647-654.	2.0	9
84	Influence of NaF on Crystallization and Machinability of Mica Glass Ceramics. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2012, 42, 958-964.	0.6	3
85	Role of MgF <sub>2</sub> on properties of glass-ceramics. <i>Bulletin of Materials Science</i> , 2012, 35, 853-858.	0.8	9
86	Protection of titanium metal by nanohydroxyapatite coating with zirconia and alumina second phases. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2012, 48, 688-691.	0.3	0
87	Effect of different additives on the properties of alumina-spinel castables. <i>Ceramica</i> , 2012, 58, 489-494.	0.3	1
88	Microwave assisted synthesis & properties of nano HA-TCP biphasic calcium phosphate. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012, 19, 441-445.	2.4	18
89	Preparation and characterisation of diopside-based glass-ceramic foams. <i>Ceramics International</i> , 2012, 38, 2005-2010.	2.3	50
90	The effects of SiO <sub>2</sub> and K <sub>2</sub> O on glass forming ability and structure of CaO TiO <sub>2</sub> P <sub>2</sub> O <sub>5</sub> glass system. <i>Ceramics International</i> , 2012, 38, 3281-3290.	2.3	12

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91	Microstructural features of nanocomposite of alumina@carbon nanotubes/alumina nanoparticles synthesized by a solvothermal method. <i>Ceramics International</i> , 2012, 38, 3991-3998.	2.3	8
92	Electronic structure and morphological study of BaTiO <sub>3</sub> film grown by pulsed-laser deposition. <i>Materials Letters</i> , 2012, 72, 107-109.	1.3	24
93	Conductor-insulator transition and electronic structure of Ca-doped BiFeO <sub>3</sub> films. <i>Materials Letters</i> , 2012, 83, 124-126.	1.3	27
94	Synthesis and characterization of hydroxyapatite/titania nanocomposites using in situ precipitation technique. <i>Superlattices and Microstructures</i> , 2012, 51, 877-885.	1.4	29
95	Effects of nucleation agents on the preparation of transparent glass-ceramics. <i>Journal of the European Ceramic Society</i> , 2012, 32, 2989-2994.	2.8	24
96	Local Erythropoietin Injection in Tibiofibular Fracture Healing. <i>Trauma Monthly</i> , 2012, 17, 386-8.	0.2	27
97	Characterization and photocatalytic activities of nanosized titanium dioxide thin films. <i>International Journal of Environmental Science and Technology</i> , 2011, 8, 545-552.	1.8	11
98	Adsorption of hydrocarbons on modified nanoclays. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 18, 182012.	0.3	7
99	A modified method for barium titanate nanoparticles synthesis. <i>Materials Research Bulletin</i> , 2011, 46, 2291-2295.	2.7	59
100	Investigation of dark and light conductivities in calcium doped bismuth ferrite thin films. <i>Materials Letters</i> , 2011, 65, 3086-3088.	1.3	17
101	Effect of Y <sub>2</sub> O <sub>3</sub> and Er <sub>2</sub> O <sub>3</sub> co-dopants on phase stabilization of bismuth oxide. <i>Ceramics International</i> , 2011, 37, 3451-3455.	2.3	39
102	Photoconductivity and diode effect in Bi rich multiferroic BiFeO <sub>3</sub> thin films grown by pulsed-laser deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 815-820.	1.1	23
103	Sintering of Al <sub>2</sub> O <sub>3</sub> -SiC composite from sol-gel method with MgO, TiO <sub>2</sub> and Y <sub>2</sub> O <sub>3</sub> addition. <i>Ceramics International</i> , 2011, 37, 1681-1688.	2.3	17
104	Two-step sintering of ZnO varistors. <i>Solid State Ionics</i> , 2011, 190, 99-105.	1.3	34
105	Synthesis and Characterization of Al <sub>2</sub> O <sub>3</sub> -SiC Nano Composite by Sol-Gel Method and the Effect of TiO <sub>2</sub> on Sintering. <i>Journal of Nano Research</i> , 2011, 13, 7-19.	0.8	4
106	Effect of Iron Oxide and Silica Doping on Microstructure, Bandgap and Photocatalytic Properties of Titania by Water-in-Oil Microemulsion Technique. <i>Transactions of the Indian Ceramic Society</i> , 2011, 70, 227-232.	0.4	4
107	Utilization of DTA in the Determination of a Crystallization Mechanism in Transparent Glass-Ceramics with a Nanocrystalline Structure. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2011, 41, 561-570.	0.6	7
108	High voltage SnO <sub>2</sub> varistors prepared from nanocrystalline powders. <i>Journal of Materials Science: Materials in Electronics</i> , 2010, 21, 199-205.	1.1	5

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109	Microstructural and electrical properties of varistors prepared from coated ZnO nanopowders. <i>Journal of Materials Science: Materials in Electronics</i> , 2010, 21, 571-577.	1.1	19
110	Crystallisation kinetics of hydroxyapatite thin films prepared by sol-gel process. <i>Advances in Applied Ceramics</i> , 2010, 109, 313-317.	0.6	7
111	Effects of nucleation agent particle size on properties, crystallisation and microstructure of glass-ceramics in TiO <sub>2</sub> -ZrO <sub>2</sub> -Li <sub>2</sub> O-CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> system. <i>Advances in Applied Ceramics</i> , 2010, 109, 318-323.	0.6	10
112	Properties, crystallization mechanism and microstructure of lithium disilicate glass-ceramic. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 208-214.	1.5	65
113	Characterization of optical properties of amorphous BaTiO <sub>3</sub> nanothin films. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 2480-2484.	1.5	62
114	Production of perovskite catalysts on ceramic monoliths with nanoparticles for dual fuel system automobiles. <i>International Journal of Environmental Science and Technology</i> , 2009, 6, 105-112.	1.8	18
115	The Effects of Composition and Sintering Conditions on Zirconia Toughened Alumina (ZTA) Nanocomposites. <i>Advanced Materials Research</i> , 0, 93-94, 695-698.	0.3	5
116	Synthesis and Characterization of Sol-Gel Derived Hydroxyapatite-Bioglass Composite Nanopowders for Biomedical Applications. <i>Journal of Biomimetics, Biomaterials, and Tissue Engineering</i> , 0, 12, 51-57.	0.7	5
117	The Effects of CaF <sub>2</sub> in Mica Glass-Ceramics. <i>Defect and Diffusion Forum</i> , 0, 334-335, 258-263.	0.4	0
118	A numerical scheme for solving two-dimensional fractional optimal control problems by the Ritz method combined with fractional operational matrix. <i>IMA Journal of Mathematical Control and Information</i> , 0, , dnw009.	1.1	4