Yousef Haik

List of Publications by Year
in descending order

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147 papers	5,207 citations	117625 34 h-index	95266 68 g-index
148 all docs	148 docs citations	148 times ranked	6890 citing authors

#	Article	IF	Citations
1	Magnetic Nanoparticles: Surface Effects and Properties Related to Biomedicine Applications. International Journal of Molecular Sciences, 2013, 14, 21266-21305.	4.1	871
2	Magnetic Properties of Magnetic Nanoparticles for Efficient Hyperthermia. Nanomaterials, 2015, 5, 63-89.	4.1	368
3	Development of magnetic device for cell separation. Journal of Magnetism and Magnetic Materials, 1999, 194, 254-261.	2.3	196
4	Effective extraction of microalgae lipids from wet biomass for biodiesel production. Biomass and Bioenergy, 2014, 66, 159-167.	5.7	176
5	Size dependent magnetic properties of iron oxide nanoparticles. Journal of Magnetism and Magnetic Materials, 2003, 257, 113-118.	2.3	173
6	Synthesis and optical properties of colloidal CuO nanoparticles. Journal of Luminescence, 2014, 151, 149-154.	3.1	163
7	Removal and recovery of acridine orange from solutions by use of magnetic nanoparticles. Journal of Hazardous Materials, 2009, 169, 318-323.	12.4	159
8	Thermal and mechanical properties of poly(vinyl alcohol) plasticized with glycerol. Journal of Applied Polymer Science, 2011, 122, 3102-3109.	2.6	136
9	Combustion of algae oil methyl ester in an indirect injection diesel engine. Energy, 2011, 36, 1827-1835.	8.8	133
10	Selective H2S sensor based on CuO nanoparticles embedded in organic membranes. Sensors and Actuators B: Chemical, 2016, 231, 593-600.	7.8	133
11	Apparent viscosity of human blood in a high static magnetic field. Journal of Magnetism and Magnetic Materials, 2001, 225, 180-186.	2.3	117
12	Synthesis and characterization of polymer encapsulated Cuâ€“Ni magnetic nanoparticles for hyperthermia applications. Journal of Magnetism and Magnetic Materials, 2005, 293, 303-309.	2.3	112
13	Supercritical carbon dioxide extraction of microalgae lipid: Process optimization and laboratory scale-up. Journal of Supercritical Fluids, 2014, 86, 57-66.	3.2	103
14	Polyethylene magnetic nanoparticle: a new magnetic material for biomedical applications. Journal of Magnetism and Magnetic Materials, 2002, 246, 382-391.	2.3	85
15	A Review of Enzymatic Transesterification of Microalgal Oil-Based Biodiesel Using Supercritical Technology. Enzyme Research, 2011, 2011, 1-25.	1.8	85
16	Modification and characterization of polystyrene-based magnetic microspheres and comparison with albumin-based magnetic microspheres. Journal of Magnetism and Magnetic Materials, 2001, 225, 21-29.	2.3	77
17	Growth of microalgae using CO2 enriched air for biodiesel production in supercritical CO2. Renewable Energy, 2015, 82, 61-70.	8.9	67
18	Thermomechanical properties of poly(vinyl alcohol) plasticized with varying ratios of sorbitol. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 925-930.	5.6	66

#	Article	IF	Citations
19	Au nanocluster coupling with Gd-Co2B nanoflakes embedded in reduced TiO2 nanosheets: Seawater electrolysis at low cell voltage with high selectivity and corrosion resistance. Applied Catalysis B: Environmental, 2022, 301, 120836.	20.2	65
20	Goldâ€Supported Gadolinium Doped CoB Amorphous Sheet: A New Benchmark Electrocatalyst for Water Oxidation with High Turnover Frequency. Advanced Functional Materials, 2020, 30, 1910309.	14.9	59
21	Targeted delivery of immune therapeutics to lymph nodes prolongs cardiac allograft survival. Journal of Clinical Investigation, 2018, 128, 4770-4786.	8.2	59
22	MnZnFe nanoparticles for self-controlled magnetic hyperthermia. Journal of Magnetism and Magnetic Materials, 2012, 324, 3620-3628.	2.3	56
23	Biological effects of power frequency magnetic fields: Neurochemical and toxicological changes in developing chick embryos. Biomagnetic Research and Technology, 2004, 2, 1.	2.0	54
24	Biodegradable magnetic gel: synthesis and characterization. Colloid and Polymer Science, 2003, 281, 892-896.	2.1	53
25	Selective gas sensors using graphene and CuO nanorods. Sensors and Actuators A: Physical, 2018, 283, 107-112.	4.1	52
26	Transverse strength enhancement of carbon fiber reinforced polymer composites by means of magnetically aligned carbon nanotubes. Materials & Design, 2012, 34, 379-383.	5.1	48
27	Targeting antigen-presenting cells by antiâ€“PD-1 nanoparticles augments antitumor immunity. JCI Insight, 2018, 3, .	5.0	48
28	Enzymatic biodiesel production of microalgae lipids under supercritical carbon dioxide: Process optimization and integration. Biochemical Engineering Journal, 2014, 90, 103-113.	3.6	47
29	Novel hydrogen gas sensor based on Pd and SnO2 nanoclusters. Materials Letters, 2014, 128, 354-357.	2.6	46
30	Acute systemic exposure to silver-based nanoparticles induces hepatotoxicity and NLRP3-dependent inflammation. Nanotoxicology, 2016, 10, 1061-1074.	3.0	42
31	High magnetic field effects on human deoxygenated hemoglobin light absorption. Bioelectrochemistry, 1998, 47, 297-300.	1.0	41
32	Optoelectronic properties of highly porous silver oxide thin film. SN Applied Sciences, 2021, 3, 1.	2.9	41
33	Regulatory T cells engineered with TCR signalingâ€“responsive IL-2 nanogels suppress alloimmunity in sites of antigen encounter. Science Translational Medicine, 2020, 12, .	12.4	39
34	Physically synthesized Ni-Cu nanoparticles for magnetic hyperthermia. Biomagnetic Research and Technology, 2004, 2, 4.	2.0	36
35	S doped Cu2O-CuO nanoneedles array: Free standing oxygen evolution electrode with high efficiency and corrosion resistance for seawater splitting. Catalysis Today, 2022, 400-401, 14-25.	4.4	36
36	Metallic nanoparticles to eradicate bacterial bone infection. Nanomedicine: Nanotechnology, Biology, and Medicine, 2017, 13, 2241-2250.	3.3	35

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37	Numerical simulation of biomagnetic fluid downstream an eccentric stenotic orifice. Physics of Fluids, 2006, 18, 113601.	4.0	34
38	Investigations on electrical properties of poly(vinyl alcohol) doped with 1-methyl-3-n-decyl-imidazolium bromide ionic liquid. Current Applied Physics, 2012, 12, 1223-1228.	2.4	34
39	Nano-floating gate organic memory devices utilizing Agâ€“Cu nanoparticles embedded in PVA-PAA-glycerol polymer. Synthetic Metals, 2013, 183, 24-28.	3.9	33
40	Gd-Doped Ni-Oxychloride Nanoclusters: New Nanoscale Electrocatalysts for High-Performance Water Oxidation through Surface and Structural Modification. ACS Applied Materials & Interfaces, 2021, 13, 468-479.	8.0	33
41	Electronic and Structural Modification of Mn₃O₄ Nanosheets for Selective and Sustained Seawater Oxidation. ACS Applied Materials & Interfaces, 2022, 14, 20443-20454.	8.0	33
42	Synthesis and characterization of heat-stabilized albumin magnetic microspheres. Colloid and Polymer Science, 2001, 279, 1073-1081.	2.1	31
43	Ni_{1â€x}Cr_x alloy for self controlled magnetic hyperthermia. Crystal Research and Technology, 2009, 44, 386-390.	1.3	31
44	Multifunctional porous NiCo bimetallic foams toward water splitting and methanol oxidation-assisted hydrogen production. Energy Conversion and Management, 2022, 254, 115262.	9.2	29
45	Numerical simulation of biomagnetic fluid in a channel with thrombus. Journal of Visualization, 2002, 5, 187-195.	1.8	27
46	Predicting a major role of surface spins in the magnetic properties of ferrite nanoparticles. Crystal Research and Technology, 2009, 44, 489-494.	1.3	27
47	CFD simulation of the magnetophoretic separation in a microchannel. Journal of Magnetism and Magnetic Materials, 2011, 323, 2960-2967.	2.3	27
48	CTLA4-Ig (abatacept): a promising investigational drug for use in type 1 diabetes. Expert Opinion on Investigational Drugs, 2020, 29, 221-236.	4.1	27
49	Force and torque characteristics for magnetically driven blood pump. Journal of Magnetism and Magnetic Materials, 2002, 241, 292-302.	2.3	26
50	Alteration of the mechanical and thermal properties of nylon 6/nylon 6,6 blends by nanoclay. Journal of Applied Polymer Science, 2012, 124, 1880-1890.	2.6	26
51	Novel organic memory devices using Auâ€“Ptâ€“Ag nanoparticles as charge storage elements. Materials Letters, 2014, 124, 67-72.	2.6	26
52	Synthesis and Stabilization of Feâ€“Ndâ€“B Nanoparticles for Biomedical Applications. Journal of Nanoparticle Research, 2005, 7, 675-679.	1.9	25
53	PEG coating reduces NMR relaxivity ofMn_{0.5}Zn_{0.5}Gd_{0.02}Fe_{1.98}O₄ nanoparticles. Journal of Magnetic Resonance Imaging, 2011, 34, 1192-1198.	3.3	25
54	Electrical properties of sorbitolâ€doped poly(vinyl alcohol)â€“poly(acrylamideâ€coâ€acrylic acid) polymer membranes. Journal of Applied Polymer Science, 2013, 128, 3861-3869.	2.6	23

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55	Kirkendall Effect vs Corrosion of Silver Nanocrystals by Atomic Oxygen: From Solid Metal Silver to Nanoporous Silver Oxide. Journal of Physical Chemistry C, 2017, 121, 19497-19504.	3.1	22
56	NiO_xâ€“FeO_x Nanoclusters Anchored on g-C₃N₄ Sheets for Selective Seawater Oxidation with High Corrosion Resistance. ACS Sustainable Chemistry and Engineering, 2022, 10, 6622-6632.	6.7	22
57	Numerical simulation of the continuous biomagnetic separation in a two-dimensional channel. International Journal of Multiphase Flow, 2011, 37, 947-955.	3.4	21
58	pH-reversible magnetic gel with a biodegradable polymer. Journal of Applied Polymer Science, 2004, 91, 3337-3341.	2.6	20
59	Enhancement of the Magnetotransport Behavior in a Phase-Separated LaAgCaMnO₃ Polycrystalline: Unraveling the Role of a Multi-Double-Exchange Mechanism. Journal of Physical Chemistry C, 2020, 124, 23324-23332.	3.1	20
60	Surface Assembling of Highly Interconnected and Vertically Aligned Porous Nanosheets of Gdâ^'CoB on TiO₂ Nanoflowers for Durable Methanol oxidation Reaction. ChemCatChem, 2020, 12, 3585-3597.	3.7	18
61	Exosomes Derived Neuronal Markers: Immunoaffinity Isolation and Characterization. NeuroMolecular Medicine, 2022, 24, 339-351.	3.4	18
62	Physical properties of PVA doped with algal glycerol. Journal of Applied Polymer Science, 2013, 130, 4482-4489.	2.6	17
63	The Role of Aggregation of Ferrite Nanoparticles on Their Magnetic Properties. Journal of Nanoscience and Nanotechnology, 2011, 11, 3882-3888.	0.9	16
64	A biocompatible magnetic film: synthesis and characterization. Biomagnetic Research and Technology, 2004, 2, 2.	2.0	15
65	Storage of energy harvested from a miniature turbine in a novel organic capacitor. Journal of Energy Storage, 2016, 6, 232-238.	8.1	15
66	Circulating Exosomes of Neuronal Origin as Potential Early Biomarkers for Development of Stroke. Molecular Diagnosis and Therapy, 2021, 25, 163-180.	3.8	14
67	Phase change material for efficient removal of crystal violet dye. Journal of Hazardous Materials, 2010, 176, 1110-1112.	12.4	13
68	Experimental investigation of the low speed impact characteristics of nanocomposites. Materials & Design, 2013, 47, 836-841.	5.1	13
69	Mass transfer modeling of Scenedesmus sp. lipids extracted by supercritical CO 2. Biomass and Bioenergy, 2014, 70, 530-541.	5.7	13
70	Temperature Dependence of Saturation Magnetization and Coercivity in Mn_{0.5}Zn_{0.5}Gd_{0.02}Fe_{1.98}O₄Ferrite Nanoparticles. IOP Conference Series: Materials Science and Engineering, 2015, 92, 012012.	0.6	13
71	Reactive Extrusion of Polyethylene Terephthalate Waste and Investigation of Its Thermal and Mechanical Properties after Treatment. International Journal of Chemical Engineering, 2017, 2017, 1-10.	2.4	13
72	Synthesis and analysis of silverâ€“copper alloy nanoparticles of different ratios manifest anticancer activity in breast cancer cells. Cancer Nanotechnology, 2020, 11, .	3.7	13

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73	Boron doped silver-copper alloy nanoparticle targeting intracellular S. aureus in bone cells. PLoS ONE, 2020, 15, e0231276.	2.5	13
74	Study of the magnetocaloric effect in single-phase antiferromagnetic GdMnO3. Journal of Physics and Chemistry of Solids, 2021, 149, 109798.	4.0	13
75	Microwave assisted glycolysis of poly(ethylene terephthalate) catalyzed by 1â€butylâ€3â€methylimidazolium bromide ionic liquid. Journal of Applied Polymer Science, 2015, 132, .	2.6	12
76	Sodium Methoxide Catalyzed Depolymerization of Waste Polyethylene Terephthalate Under Microwave Irradiation. Catalysis in Industry, 2018, 10, 41-48.	0.7	12
77	Measurement and Modeling of Confined Jet Discharged Tangentially on a Concave Semicylindrical Hot Surface. Journal of Heat Transfer, 2011, 133, .	2.1	11
78	Fabrication of Ag2O/WO3 based sensors for detection of hydrogen sulfide. Sensors and Actuators A: Physical, 2022, 333, 113256.	4.1	11
79	PbS/CdS heterojunction quantum dot solar cells. Journal of Materials Science: Materials in Electronics, 2016, 27, 3328-3340.	2.2	10
80	Numerical simulation of flow in a screw-type blood pump. Journal of Visualization, 2005, 8, 33-40.	1.8	9
81	Flow field analysis in a spiral viscous micropump. Microfluidics and Nanofluidics, 2007, 3, 527-535.	2.2	9
82	Self-Controlled Hyperthermia Characteristics of ZnGdFe Nanoparticles. IEEE Transactions on Magnetics, 2012, 48, 2430-2439.	2.1	9
83	Nanoparticles rapidly assess specific IgE in plasma. Nanotechnology, 2012, 23, 305101.	2.6	8
84	Influence of reactant concentration on optical properties of ZnO nanoparticles. Materials Technology, 2014, 29, 76-82.	3.0	8
85	NMR relaxation in systems with magnetic nanoparticles: A temperature study. Journal of Magnetic Resonance Imaging, 2014, 39, 648-655.	3.4	8
86	Effect of doping concentration on Gd1â^'xAlxMnO3 structure and magnetic properties. Journal of Magnetism and Magnetic Materials, 2020, 513, 167009.	2.3	8
87	Peculiar Magnetic Properties of MnZnGdFeO Nanoparticles. Advanced Science Letters, 2009, 2, 60-64.	0.2	8
88	Development of nanotechnology for biomedical applications. , 0, , .		7
89	Flow characteristics of gallium in a meso-scale channel under the influence of magnetic fields. International Communications in Heat and Mass Transfer, 2010, 37, 1127-1134.	5.6	7
90	Bowing Character in Wurtzite ZnO-Based Ternary Alloys. Journal of Electronic Materials, 2012, 41, 3111-3118.	2.2	7

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91	Investigating Negative Magnetization and Blocking Temperature in Aggregates of Ferrite Nanoparticles. IOP Conference Series: Materials Science and Engineering, 2015, 92, 012011.	0.6	7
92	AgCuB nanoparticle eradicates intracellular S. aureus infection in bone cells: in vitro. Emergent Materials, 2019, 2, 219-231.	5.7	7
93	Effects of the sintering temperature on the La0.63Gd0.37MnO3 structure and magnetic properties. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	7
94	Finite analytic method and its applications: a review. Dynamics of Atmospheres and Oceans, 1998, 27, 17-33.	1.8	6
95	Microscopic flow visualization system for fluids in magnetic field. Journal of Magnetism and Magnetic Materials, 1999, 194, 262-266.	2.3	6
96	Properties of NdFeB film grown on silicon substrate by PLD under external magnetic field. Surface and Coatings Technology, 2005, 194, 372-377.	4.8	6
97	CFD simulation for biomagnetic separation involving dilute suspensions. Canadian Journal of Chemical Engineering, 2012, 90, 1450-1456.	1.7	6
98	Combustion of waste chocolate oil biofuel in a diesel engine. International Journal of Ambient Energy, 2014, 35, 60-70.	2.5	6
99	Leak Localization in Pipelines via Computational Pipeline Monitoring. Journal of Pressure Vessel Technology, Transactions of the ASME, 2012, 134, 041701.	0.6	5
100	Heat transfer characteristics of multi-walled carbon nanotubes suspension in a developing channel flow. Heat and Mass Transfer, 2013, 49, 1681-1687.	2.1	5
101	Role of nanofillers in low speed impact enhancement of composites. Journal of Composite Materials, 2014, 48, 1735-1744.	2.4	5
102	Characterization of CdS and AgPt nanofillers used in organic capacitors. Synthetic Metals, 2017, 223, 26-33.	3.9	5
103	Functionalized-CNT Polymer Composite for Microwave and Electromagnetic Shielding. Polymers, 2021, 13, 3907.	4.5	5
104	Synthesis of Polyethylene Magnetic Nanoparticles. Journal of Dispersion Science and Technology, 2002, 23, 563-568.	2.4	4
105	Superparamagnetic iron oxide--myoglobin as potential nanoparticle: iron oxide--myoglobin binding properties and magnetic resonance imaging marker in mouse imaging. Journal of Experimental Nanoscience, 2007, 2, 127-138.	2.4	4
106	Patterning of silver on the micro- and nano-scale by local oxidation using air plasma. Nano Structures Nano Objects, 2019, 19, 100320.	3.5	4
107	Mechanical and thermal characterization of polypropylene-reinforced nanocrystalline cellulose nanocomposites. Journal of Thermoplastic Composite Materials, 2022, 35, 680-691.	4.2	4
108	Large magnetocaloric entropy change in ferrimagnetic Er1-xCo2 systems at cryogenic temperatures: the role of erbium deficiency. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	4

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109	A comparative study of the physical properties of Pr0.63La0.37â^'xSrxMnO3 (xSr = 0.00â€"0.30) characterized by â€œÎ»â€•shape dc magnetizations. AIP Advances, 2021, 11, .	1.3	4
110	Finite Size and Surface Effects in Ferrite Nanoparticles. Journal of Nanoengineering and Nanomanufacturing, 2012, 2, 325-331.	0.3	4
111	Biogenesis of Exosomes Laden with Metallic Silverâ€"Copper Nanoparticles Liaised by Wheat Germ Agglutinin for Targeted Delivery of Therapeutics to Breast Cancer. Advanced Biology, 2022, , 2200005.	2.5	4
112	Magnetic Techniques for Rapid Detection of Pathogens. , 2008, , 415-458.		3
113	Mechanical and thermal characterization of grafted PP-NCC nanocomposites. Journal of Thermoplastic Composite Materials, 2021, 34, 1666-1679.	4.2	3
114	Some Historical and Future Aspects of Engineering Mechanics. Journal of Engineering Mechanics - ASCE, 2002, 128, 1242-1253.	2.9	2
115	FABRICATION OF ARRAY MICROSTRUCTURES USING SERIAL AND PARALLEL LOCALIZED ELECTRODEPOSITION. International Journal of Nanoscience, 2009, 08, 323-332.	0.7	2
116	ALIGNMENT OF CARBON NANOTUBES USING MAGNETIC NANOPARTICLES. International Journal of Nanoscience, 2009, 08, 251-259.	0.7	2
117	Combustion of Raw Algae Oil and Its Methyl Ester in a Diesel Engine. , 2010, , .		2
118	High and Low Speed Impact Characteristics of Nanocomposites. Advanced Materials Research, 2015, 1105, 62-66.	0.3	2
119	Enhancing the performance of Mgâ€"Al brine water batteries using conductive polymer-PEDOT:PSS. Renewable Energy, 2015, 82, 125-130.	8.9	2
120	Glucose-Mediated Insulin Release Carrier. Polymer Science - Series A, 2018, 60, 618-627.	1.0	2
121	Mechanical and thermal characterization of functionalized maleic anhydride grafted polypropylene. Materials Research Express, 2019, 6, 105367.	1.6	2
122	Oxidation of Au/Ag films by oxygen plasma: phase separation and generation of nanoporosity. Beilstein Journal of Nanotechnology, 2020, 11, 1608-1614.	2.8	2
123	NANOMAGNETICS IN BIOTECHNOLOGY. , 2005, , .		2
124	FUNDAMENTALS OF BIO-MAGNETIC FLUID MECHANICS AND ITS APPLICATIONS. , 2002, , .		2
125	Quantum Confinement Effects on Electronic Properties of ZnO Quantum Dots. Advanced Science, Engineering and Medicine, 2014, 6, 1158-1166.	0.3	2
126	3D SERS-based biosensor for the selective detection of circulating cancer-derived exosomes. Emergent Materials, 0, , 1.	5.7	2

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127	Effect of high AC magnetic field on magnetic nanoparticles for magnetic hyperthermia and radiation/chemotherapy applications. , 0, , .		1
128	Effect of Nano-Circular Inclusion on the Interfacial Stresses of a Nano-Composite. AIP Conference Proceedings, 2007, , .	0.4	1
129	Mixing Efficiency of Red Blood Cells With Magnetic Microspheres for a Hybrid Separation System. Journal of Medical Devices, Transactions of the ASME, 2008, 2, .	0.7	1
130	On Identification of Leaky Pipeline Parameters via Monte Carlo Simulation. , 2011, , .		1
131	Unconventional critical behavior of the magnetic refrigerant system Er_{0.98}â¬¡_{0.02}Co₂ around its ferromagnetic-paramagnetic transition. Physica Scripta, 2020, 95, 055811.	2.5	1
132	Electrocatalysis for the Water Splitting: Recent Strategies for Improving the Performance of Electrocatalyst. , 2021, , 315-339.		1
133	Effect of doping concentration and heat treatment on the refrigerant capacity of Pr0.63Dy0.37-xSrxMnO3. Current Applied Physics, 2021, 28, 35-44.	2.4	1
134	Thermally Reversible Nanoparticle Aggregation Explains Magnetic Moment Increase with Temperature. Current Nanoscience, 2013, 9, 381-386.	1.2	1
135	Modeling of complex flows and heat transfer. Journal of Visualization, 1998, 1, 51-63.	1.8	0
136	1. Simulation of biomagnetic fluid around semicircular thrombus. Journal of Visualization, 2001, 3, 307-307.	1.8	0
137	Controlling Residual Stress in Metal Matrix Ceramic Fiber Composite. Materials Research Society Symposia Proceedings, 2006, 977, 1.	0.1	0
138	Ionic Liquid Mediated Dye Recovery from Aqueous Solution. Nature Precedings, 2008, , .	0.1	0
139	Pathogen detection using single tunnel junction sensor (STJ) with magnetic nano particles. , 2012, , .		0
140	Pipeline Parameter Identification and Leak Localization Using Experimental Data. , 2014, , .		0
141	Synthesis and analysis of iron-dopped CNT/PU composites for microwave applications. , 2017, , .		0
142	Doped conductive polymers and single-walled carbon nanotubes as charge storage devices. Materials Research Express, 2018, 5, 095023.	1.6	0
143	Thermal analysis of erbium charge storage nanoparticles embedded in organic MIS structure. Materials Research Express, 2019, 6, 075036.	1.6	0
144	DEVELOPMENT OF MAGNETICALLY DRIVEN MINI AND MICRO PUMP. , 2002, , .		0

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145	Leak Localization in Pipelines via Computational Pipeline Monitoring. , 2010, , .		0
146	Nanocidals for Osteomyelitis Management. , 2010, , .		0
147	Investigating of Negative Magnetization in Aggregates of Mn_{0.5}Zn_{0.5}Gd_xFe_{2â€“x}O₄ Ferrite Nanoparticles. Nanoscience and Nanotechnology Letters, 2018, 10, 1451-1457.	0.4	0