

# Abdolreza Simchi

## List of Publications by Year in descending order

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Version: 2024-02-01

269  
papers

13,319  
citations

20817

60  
h-index

36028

97  
g-index

272  
all docs

272  
docs citations

272  
times ranked

14733  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct laser sintering of metal powders: Mechanism, kinetics and microstructural features. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 428, 148-158.	5.6	469
2	Magnetic Resonance Imaging Tracking of Stem Cells in Vivo Using Iron Oxide Nanoparticles as a Tool for the Advancement of Clinical Regenerative Medicine. <i>Chemical Reviews</i> , 2011, 111, 253-280.	47.7	385
3	Recent progress in inorganic and composite coatings with bactericidal capability for orthopaedic applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 22-39.	3.3	363
4	Cell toxicity of superparamagnetic iron oxide nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2009, 336, 510-518.	9.4	324
5	Effects of laser sintering processing parameters on the microstructure and densification of iron powder. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 359, 119-128.	5.6	311
6	A new approach for the in vitro identification of the cytotoxicity of superparamagnetic iron oxide nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 75, 300-309.	5.0	264
7	Optimal Design and Characterization of Superparamagnetic Iron Oxide Nanoparticles Coated with Polyvinyl Alcohol for Targeted Delivery and Imaging. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14470-14481.	2.6	232
8	On the development of direct metal laser sintering for rapid tooling. <i>Journal of Materials Processing Technology</i> , 2003, 141, 319-328.	6.3	220
9	Smart Polymeric Hydrogels for Cartilage Tissue Engineering: A Review on the Chemistry and Biological Functions. <i>Biomacromolecules</i> , 2016, 17, 3441-3463.	5.4	201
10	Structural evolution during mechanical milling of nanometric and micrometric Al <sub>2</sub> O <sub>3</sub> reinforced Al matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 428, 159-168.	5.6	192
11	Nanoporous composites of activated carbon-metal organic frameworks for organic dye adsorption: Synthesis, adsorption mechanism and kinetics studies. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 405-414.	5.8	169
12	Superparamagnetic Iron Oxide Nanoparticles with Rigid Cross-linked Polyethylene Glycol Fumarate Coating for Application in Imaging and Drug Delivery. <i>Journal of Physical Chemistry C</i> , 2009, 113, 8124-8131.	3.1	164
13	Electrophoretic deposition of chitosan/45S5 Bioglass® composite coatings for orthopaedic applications. <i>Surface and Coatings Technology</i> , 2011, 205, 5260-5268.	4.8	154
14	Densification and grain growth of nanocrystalline 3Y-TZP during two-step sintering. <i>Journal of the European Ceramic Society</i> , 2008, 28, 2933-2939.	5.7	152
15	An investigation on the compressibility of aluminum/nano-alumina composite powder prepared by blending and mechanical milling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 454-455, 89-98.	5.6	137
16	Electrophoretic deposition of chitosan. <i>Materials Letters</i> , 2009, 63, 2253-2256.	2.6	128
17	Cytotoxicity of Uncoated and Polyvinyl Alcohol Coated Superparamagnetic Iron Oxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9573-9580.	3.1	128
18	Flexible bactericidal graphene oxide-chitosan layers for stem cell proliferation. <i>Applied Surface Science</i> , 2014, 301, 456-462.	6.1	126

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19	The role of particle size on the laser sintering of iron powder. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 937-948.	2.1	122
20	Review of Textile Based Chemical and Physical Sensors for Healthcare Monitoring. Journal of the Electrochemical Society, 2020, 167, 037546.	2.9	115
21	An in vitro study of bare and poly(ethylene glycol)-co-fumarate-coated superparamagnetic iron oxide nanoparticles: a new toxicity identification procedure. Nanotechnology, 2009, 20, 225104.	2.6	110
22	Direct laser sintering of iron-graphite powder mixture. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 383, 191-200.	5.6	109
23	Size-controlled synthesis of superparamagnetic iron oxide nanoparticles and their surface coating by gold for biomedical applications. Journal of Magnetism and Magnetic Materials, 2012, 324, 3997-4005.	2.3	106
24	Self-Assembled, Nanowire Network Electrodes for Depleted Bulk Heterojunction Solar Cells. Advanced Materials, 2013, 25, 1769-1773.	21.0	102
25	Processing and Properties of Nanofibrous Bacterial Cellulose-Containing Polymer Composites: A Review of Recent Advances for Biomedical Applications. Polymer Reviews, 2020, 60, 144-170.	10.9	101
26	Solid state and liquid phase sintering of mechanically activated W-20wt.% Cu powder mixture. Journal of Alloys and Compounds, 2008, 463, 153-159.	5.5	95
27	Recent advances in surface engineering of superparamagnetic iron oxide nanoparticles for biomedical applications. Journal of the Iranian Chemical Society, 2010, 7, S1-S27.	2.2	93
28	Multiphysics Flow Modeling and in Vitro Toxicity of Iron Oxide Nanoparticles Coated with Poly(vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.1	91
29	Effect of nanoparticle content on the microstructural and mechanical properties of nano-SiC dispersed bulk ultrafine-grained Cu matrix composites. Materials & Design, 2013, 52, 881-887.	5.1	91
30	Cryogenic friction-stir processing of ultrafine-grained Al-Mg-TiO <sub>2</sub> nanocomposites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 620, 471-482.	5.6	89
31	Effect of particle size on the in vitro bioactivity, hydrophilicity and mechanical properties of bioactive glass-reinforced polycaprolactone composites. Materials Science and Engineering C, 2011, 31, 1526-1533.	7.3	88
32	Characterization and antibacterial performance of electrodeposited chitosan-vancomycin composite coatings for prevention of implant-associated infections. Materials Science and Engineering C, 2014, 41, 240-248.	7.3	88
33	Self-Powered Wearable Piezoelectric Sensors Based on Polymer Nanofiber-Metal-Organic Framework Nanoparticle Composites for Arterial Pulse Monitoring. ACS Applied Nano Materials, 2020, 3, 8742-8752.	5.0	88
34	Friction stir welding of a P/M Al-Al <sub>2</sub> O <sub>3</sub> nanocomposite: Microstructure and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 585, 222-232.	5.6	85
35	Physicochemical and biological properties of electrodeposited graphene oxide/chitosan films with drug-eluting capacity. Carbon, 2015, 84, 91-102.	10.3	85
36	Microstructure and texture development during friction stir processing of Al-Mg alloy sheets with TiO <sub>2</sub> nanoparticles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 605, 108-118.	5.6	83

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37	Development of Chitosan/Bacterial Cellulose Composite Films Containing Nanodiamonds as a Potential Flexible Platform for Wound Dressing. <i>Materials</i> , 2015, 8, 6401-6418.	2.9	83
38	On the biological performance of graphene oxide-modified chitosan/polyvinyl pyrrolidone nanocomposite membranes: In vitro and in vivo effects of graphene oxide. <i>Materials Science and Engineering C</i> , 2017, 70, 121-131.	7.3	83
39	Master sintering curves of a nanoscale 3Y-TZP powder compacts. <i>Ceramics International</i> , 2009, 35, 547-554.	4.8	82
40	Effect of SiC particles on the laser sintering of Al <sub>7</sub> Si <sub>0.3</sub> Mg alloy. <i>Scripta Materialia</i> , 2008, 59, 199-202.	5.2	79
41	Long-term antibiotic delivery by chitosan-based composite coatings with bone regenerative potential. <i>Applied Surface Science</i> , 2014, 317, 56-66.	6.1	76
42	Nanoengineered shear-thinning and bioprintable hydrogel as a versatile platform for biomedical applications. <i>Biomaterials</i> , 2021, 267, 120476.	11.4	76
43	Friction stir processing of an aluminum-magnesium alloy with pre-placing elemental titanium powder: In-situ formation of an Al <sub>3</sub> Ti-reinforced nanocomposite and materials characterization. <i>Materials Characterization</i> , 2015, 108, 102-114.	4.4	75
44	Ligand functionalized copper nanoclusters for versatile applications in catalysis, sensing, bioimaging, and optoelectronics. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2326-2356.	5.9	75
45	Experimental and thermomechanical analysis of the effect of tool pin profile on the friction stir welding of poly(methyl methacrylate) sheets. <i>Journal of Manufacturing Processes</i> , 2018, 34, 412-423.	5.9	74
46	Fabrication, characterization and mechanical properties of hybrid composites of copper using the nanoparticulates of SiC and carbon nanotubes. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 572, 83-90.	5.6	73
47	Friction-stir lap-joining of aluminium-magnesium/poly-methyl-methacrylate hybrid structures: thermo-mechanical modelling and experimental feasibility study. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 35-49.	3.1	73
48	Effect of ceramic particle addition on the foaming behavior, cell structure and mechanical properties of P/M AlSi7 foam. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 424, 290-299.	5.6	72
49	Biomimetic nanoengineered scaffold for enhanced full-thickness cutaneous wound healing. <i>Acta Biomaterialia</i> , 2021, 124, 191-204.	8.3	72
50	Reactive friction stir processing of AA 5052â€“TiO <sub>2</sub> nanocomposite: processâ€“microstructureâ€“mechanical characteristics. <i>Materials Science and Technology</i> , 2015, 31, 426-435.	1.6	69
51	An investigation on the sintering behavior of 316L and 17-4PH stainless steel powders for graded composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 424, 282-289.	5.6	67
52	Sintering of biocompatible P/M Coâ€“Crâ€“Mo alloy (F-75) for fabrication of porosity-graded composite structures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 472, 338-346.	5.6	67
53	Hybrid cross-linked hydrogels based on fibrous protein/block copolymers and layered silicate nanoparticles: tunable thermosensitivity, biodegradability and mechanical durability. <i>RSC Advances</i> , 2016, 6, 62944-62957.	3.6	67
54	Effect of graphene oxide nanosheets on the physico-mechanical properties of chitosan/bacterial cellulose nanofibrous composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 85, 113-122.	7.6	67

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55	Analysis of the rheological behavior and stability of 316L stainless steelâ€“TiC powder injection molding feedstock. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 407, 105-113.	5.6	66
56	Analysis of the compaction behavior of Alâ€“SiC nanocomposites using linear and non-linear compaction equations. <i>Advanced Powder Technology</i> , 2010, 21, 273-278.	4.1	66
57	Effects of stored strain energy on restoration mechanisms and texture components in an aluminumâ€“magnesium alloy prepared by friction stir processing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 642, 204-214.	5.6	66
58	Densification and microstructural evaluation during laser sintering of M2 high speed steel powder. <i>Materials Science and Technology</i> , 2004, 20, 1462-1468.	1.6	65
59	Three-dimensional hybrid graphene/nickel electrodes on zinc oxide nanorod arrays as non-enzymatic glucose biosensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 462-471.	7.8	65
60	Effects of porosity on delamination wear behaviour of sintered plain iron. <i>Powder Metallurgy</i> , 2004, 47, 73-80.	1.7	64
61	Microstructural features, texture and strengthening mechanisms of nanostructured AA6063 alloy processed by powder metallurgy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 3981-3989.	5.6	64
62	Structural changes during synthesizing of nanostructured Wâ€“20wt% Cu composite powder by mechanical alloying. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 445-446, 86-93.	5.6	63
63	Similar and dissimilar friction-stir welding of an PM aluminum-matrix hybrid nanocomposite and commercial pure aluminum: Microstructure and mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 666, 225-237.	5.6	62
64	Temporary skin grafts based on hybrid graphene oxide-natural biopolymer nanofibers as effective wound healing substitutes: pre-clinical and pathological studies in animal models. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 73.	3.6	62
65	Effects of alumina nanoparticles on the microstructure, strength and wear resistance of poly(methyl Tj ETQq1 1 0.784314 rgBT /Ove Behavior of Biomedical Materials, 2018, 79, 246-253.	3.1	62
66	Fast and ultra-sensitive voltammetric detection of lead ions by two-dimensional graphitic carbon nitride (g-C3N4) nanolayers as glassy carbon electrode modifier. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 134, 679-687.	5.0	62
67	Fabrication and Characterization of Core-Shell Electrospun Fibrous Mats Containing Medicinal Herbs for Wound Healing and Skin Tissue Engineering. <i>Marine Drugs</i> , 2019, 17, 27.	4.6	62
68	The role of microstructural features on the electrical resistivity and mechanical properties of powder metallurgy Al-SiC-Al <sub>2</sub> O <sub>3</sub> nanocomposites. <i>Materials and Design</i> , 2017, 130, 26-36.	7.0	61
69	Submerged friction stir welding of dissimilar joints between an Al-Mg alloy and low carbon steel: Thermo-mechanical modeling, microstructural features, and mechanical properties. <i>Journal of Manufacturing Processes</i> , 2020, 50, 68-79.	5.9	61
70	Kinetics and mechanisms of nanoparticle formation and growth in vapor phase condensation process. <i>Materials &amp; Design</i> , 2007, 28, 850-856.	5.1	60
71	Experimental and thermomechanical analysis of friction stir welding of poly(methyl methacrylate) sheets. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 209-218.	3.1	60
72	Synergetic effect of Ni and Nb <sub>2</sub> O <sub>5</sub> on dehydrogenation properties of nanostructured MgH <sub>2</sub> synthesized by high-energy mechanical alloying. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 7724-7730.	7.1	59

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73	A study of the electrophoretic deposition of Bioglass® suspensions using the Taguchi experimental design approach. <i>Journal of the European Ceramic Society</i> , 2010, 30, 2963-2970.	5.7	59
74	Surface modifications of an aluminum-magnesium alloy through reactive stir friction processing with titanium oxide nanoparticles for enhanced sliding wear resistance. <i>Surface and Coatings Technology</i> , 2017, 309, 114-123.	4.8	59
75	A comprehensive review on planar boron nitride nanomaterials: From 2D nanosheets towards OD quantum dots. <i>Progress in Materials Science</i> , 2022, 124, 100884.	32.8	59
76	Effect of rapid solidification on the microstructure and mechanical properties of hot-pressed Al-20Si-5Fe alloys. <i>Materials Characterization</i> , 2009, 60, 1370-1381.	4.4	58
77	Synthesis and cytotoxicity assessment of superparamagnetic iron-gold core-shell nanoparticles coated with polyglycerol. <i>Journal of Colloid and Interface Science</i> , 2010, 345, 64-71.	9.4	57
78	Microstructural development and mechanical properties of nanostructured copper reinforced with SiC nanoparticles. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 568, 33-39.	5.6	57
79	An investigation on the dissimilar friction stir welding of T-joints between AA5754 aluminum alloy and poly(methyl methacrylate). <i>Thin-Walled Structures</i> , 2019, 135, 376-384.	5.3	57
80	Electrospinning of Nanodiamond-Modified Polysaccharide Nanofibers with Physico-Mechanical Properties Close to Natural Skins. <i>Marine Drugs</i> , 2016, 14, 128.	4.6	56
81	High Antimicrobial Activity and Low Human Cell Cytotoxicity of Core-Shell Magnetic Nanoparticles Functionalized with an Antimicrobial Peptide. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 11366-11378.	8.0	56
82	Effect of sintering atmosphere and carbon content on the densification and microstructure of laser-sintered M2 high-speed steel powder. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 403, 290-298.	5.6	55
83	Mechanochemical Green Synthesis of Exfoliated Edge-Functionalized Boron Nitride Quantum Dots: Application to Vitamin C Sensing through Hybridization with Gold Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28819-28827.	8.0	55
84	Cytotoxicity and Cell Cycle Effects of Bare and Poly(vinyl alcohol)-Coated Iron Oxide Nanoparticles in Mouse Fibroblasts. <i>Advanced Engineering Materials</i> , 2009, 11, B243.	3.5	54
85	Kinetics and adsorptive study of organic dye removal using water-stable nanoscale metal organic frameworks. <i>Materials Chemistry and Physics</i> , 2019, 233, 267-275.	4.0	54
86	Friction Stir Welding and Friction Spot Stir Welding Processes of Polymers—State of the Art. <i>Materials</i> , 2020, 13, 2291.	2.9	54
87	Antibiotic-loaded chitosan-Laponite films for local drug delivery by titanium implants: cell proliferation and drug release studies. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 269.	3.6	53
88	Analysis of the effect of reinforcement particles on the compressibility of Al-SiC composite powders using a neural network model. <i>Materials &amp; Design</i> , 2009, 30, 1518-1523.	5.1	52
89	Effects of nanometric inclusions on the microstructural characteristics and strengthening of a friction-stir processed aluminum-magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 642, 215-229.	5.6	52
90	Modification of bacterial cellulose/keratin nanofibrous mats by a tragacanth gum-conjugated hydrogel for wound healing. <i>International Journal of Biological Macromolecules</i> , 2019, 134, 280-289.	7.5	52



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91	Microstructure and compressibility of SiC nanoparticles reinforced Cu nanocomposite powders processed by high energy mechanical milling. <i>Ceramics International</i> , 2014, 40, 951-960.	4.8	50
92	Quasi Core/Shell Lead Sulfide/Graphene Quantum Dots for Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 18886-18895.	3.1	50
93	Friction stir welding of polycarbonate lap joints: Relationship between processing parameters and mechanical properties. <i>Polymer Testing</i> , 2019, 79, 105999.	4.8	50
94	Evaluation of a polymer-steel laminated sheet composite structure produced by friction stir additive manufacturing (FSAM) technology. <i>Polymer Testing</i> , 2020, 90, 106690.	4.8	50
95	Effect of morphology on the solar photocatalytic behavior of ZnO nanostructures. <i>Journal of Alloys and Compounds</i> , 2009, 485, 616-620.	5.5	49
96	Size tuning of Ag-decorated TiO <sub>2</sub> nanotube arrays for improved bactericidal capacity of orthopedic implants. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 2625-2635.	4.0	49
97	Physicochemical and antibacterial properties of chitosan-polyvinylpyrrolidone films containing self-organized graphene oxide nanolayers. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	49
98	Manufacturing of multi-functional micro parts by two-component metal injection moulding. <i>International Journal of Advanced Manufacturing Technology</i> , 2007, 33, 176-186.	3.0	48
99	Effects of Ti-based catalysts on hydrogen desorption kinetics of nanostructured magnesium hydride. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 21007-21014.	7.1	48
100	Hot deformation behavior of an aluminum-matrix hybrid nanocomposite fabricated by friction stir processing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 626, 458-466.	5.6	48
101	Effects of lubrication procedure on the consolidation, sintering and microstructural features of powder compacts. <i>Materials &amp; Design</i> , 2003, 24, 585-594.	5.1	47
102	Abnormal grain growth in alumina dispersion-strengthened copper produced by an internal oxidation process. <i>Scripta Materialia</i> , 2008, 58, 966-969.	5.2	47
103	Biochemical mechanisms of dose-dependent cytotoxicity and ROS-mediated apoptosis induced by lead sulfide/graphene oxide quantum dots for potential bioimaging applications. <i>Scientific Reports</i> , 2017, 7, 12896.	3.3	47
104	<i>In situ</i> synthesis of quasi-needle-like bimetallic organic frameworks on highly porous graphene scaffolds for efficient electrocatalytic water oxidation. <i>Chemical Communications</i> , 2020, 56, 3135-3138.	4.1	47
105	Microinjection moulding of 316L/17-4PH and 316L/Fe powders for fabrication of magnetic-nonmagnetic bimetallics. <i>Journal of Materials Processing Technology</i> , 2008, 200, 259-264.	6.3	46
106	Strain Rate Sensitivity, Work Hardening, and Fracture Behavior of an Al-Mg TiO <sub>2</sub> Nanocomposite Prepared by Friction Stir Processing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 4073-4088.	2.2	45
107	Hybrid zinc oxide/graphene electrodes for depleted heterojunction colloidal quantum-dot solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24412-24419.	2.8	45
108	Fatigue fracture of friction-stir processed Al-Al <sub>3</sub> Ti-MgO hybrid nanocomposites. <i>International Journal of Fatigue</i> , 2016, 87, 266-278.	5.7	45

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109	Effect of graphene oxide nanosheets on visible light-assisted antibacterial activity of vertically-aligned copper oxide nanowire arrays. <i>Journal of Colloid and Interface Science</i> , 2018, 521, 119-131.	9.4	45
110	Microstructure and mechanical properties of WCâ€“10Co cemented carbide containing VC or (Ta, Nb)C and fracture toughness evaluation using different models. <i>International Journal of Refractory Metals and Hard Materials</i> , 2012, 31, 141-146.	3.8	44
111	Tissue growth into three-dimensional composite scaffolds with controlled micro-features and nanotopographical surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 2796-2807.	4.0	44
112	Reactive milling synthesis of nanocrystalline Alâ€“Cu/Al <sub>2</sub> O <sub>3</sub> nanocomposite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 464, 225-232.	5.6	43
113	Core-sheath gelatin based electrospun nanofibers for dual delivery release of biomolecules and therapeutics. <i>Materials Science and Engineering C</i> , 2020, 108, 110432.	7.3	43
114	Preparation and biological evaluation of [67Ga]-labeled-superparamagnetic nanoparticles in normal rats. <i>Radiochimica Acta</i> , 2009, 97, .	1.2	42
115	Effects of post-annealing on the microstructure and mechanical properties of friction stir processed Alâ€“Mgâ€“TiO <sub>2</sub> nanocomposites. <i>Materials &amp; Design</i> , 2014, 63, 30-41.	5.1	42
116	Effect of alumina nanoparticles on the microstructure and mechanical durability of meltspun lead-free solders based on tin alloys. <i>Journal of Alloys and Compounds</i> , 2016, 688, 143-155.	5.5	42
117	Dual-Sensitive Hydrogel Nanoparticles Based on Conjugated Thermoresponsive Copolymers and Protein Filaments for Triggerable Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 19336-19346.	8.0	42
118	Modeling and experimental validation of material flow during FSW of polycarbonate. <i>Materials Today Communications</i> , 2020, 22, 100796.	1.9	42
119	Microstructure and mechanical properties of Alâ€“20Siâ€“5Feâ€“2X (X=Cu, Ni, Cr) alloys produced by melt-spinning. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 492, 443-449.	5.6	41
120	Templated growth of superparamagnetic iron oxide nanoparticles by temperature programming in the presence of poly(vinyl alcohol). <i>Thin Solid Films</i> , 2010, 518, 4281-4289.	1.8	41
121	Reviewâ€”Towards the Two-Dimensional Hexagonal Boron Nitride (2D h-BN) Electrochemical Sensing Platforms. <i>Journal of the Electrochemical Society</i> , 2020, 167, 126513.	2.9	41
122	Artificial neural network modeling of mechanical alloying process for synthesizing of metal matrix nanocomposite powders. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 466, 274-283.	5.6	40
123	Chemical processing of three-dimensional graphene networks on transparent conducting electrodes for depleted-heterojunction quantum dot solar cells. <i>Chemical Communications</i> , 2016, 52, 323-326.	4.1	40
124	Injectable polyethylene glycol-laponite composite hydrogels as articular cartilage scaffolds with superior mechanical and rheological properties. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2017, 66, 105-114.	3.4	40
125	A new procedure for the fabrication of dissimilar joints through injection of colloidal nanoparticles during friction stir processing: Proof concept for AA6062/PMMA joints. <i>Journal of Manufacturing Processes</i> , 2020, 49, 335-343.	5.9	40
126	Hydrogen desorption properties of MgH <sub>2</sub> â€“TiCr <sub>1.2</sub> Fe <sub>0.6</sub> nanocomposite prepared by high-energy mechanical alloying. <i>Journal of Power Sources</i> , 2011, 196, 4604-4608.	7.8	39



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127	Supercritical Synthesis and Characterization of Grapheneâ€“PbS Quantum Dots Composite with Enhanced Photovoltaic Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 7382-7392.	3.7	38
128	Influence of hard inclusions on microstructural characteristics and textural components during dissimilar friction-stir welding of an PM Alâ€“Al <sub>2</sub> O <sub>3</sub> â€“SiC hybrid nanocomposite with AA1050 alloy. <i>Science and Technology of Welding and Joining</i> , 2017, 22, 412-427.	3.1	38
129	Electrocatalytic hydrogen evolution reaction on graphene supported transition metal-organic frameworks. <i>Inorganic Chemistry Communication</i> , 2021, 127, 108525.	3.9	38
130	Effect of reinforcement volume fraction on mechanical alloying of Alâ€“SiC nanocomposite powders. <i>Powder Metallurgy</i> , 2007, 50, 276-282.	1.7	37
131	Effect of particle size on the microstructure of rapidly solidified Alâ€“20Siâ€“5Feâ€“2X (X=Cu, Ni, Cr) powder. <i>Journal of Alloys and Compounds</i> , 2008, 466, 111-118.	5.5	37
132	Tensile and fatigue fracture of nanometric alumina reinforced copper with bimodal grain size distribution. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 507, 200-206.	5.6	37
133	Adsorption and solar light activity of transition-metal doped TiO <sub>2</sub> nanoparticles as semiconductor photocatalyst. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 659-667.	2.2	37
134	Spark plasma sintering of a multilayer thermal barrier coating on Inconel 738 superalloy: Microstructural development and hot corrosion behavior. <i>Ceramics International</i> , 2016, 42, 2770-2779.	4.8	37
135	In-situ solvothermal processing of polycaprolactone/hydroxyapatite nanocomposites with enhanced mechanical and biological performance for bone tissue engineering. <i>Bioactive Materials</i> , 2017, 2, 146-155.	15.6	36
136	Microstructure, strengthening mechanisms and hot deformation behavior of an oxide-dispersion strengthened UFC Al6063 alloy. <i>Materials Characterization</i> , 2013, 75, 108-114.	4.4	35
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