

Soon H Hong

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199
papers

9,570
citations

50
h-index

92
g-index

212
ext. papers

10,813
ext. citations

6.2
avg, IF

6.39
L-index

#	Paper	IF	Citations
199	Tuning the photoluminescence of graphene quantum dots through the charge transfer effect of functional groups. <i>ACS Nano</i> , 2013 , 7, 1239-45	16.7	624
198	Extraordinary Strengthening Effect of Carbon Nanotubes in Metal-Matrix Nanocomposites Processed by Molecular-Level Mixing. <i>Advanced Materials</i> , 2005 , 17, 1377-1381	24	520
197	Enhanced mechanical properties of graphene/copper nanocomposites using a molecular-level mixing process. <i>Advanced Materials</i> , 2013 , 25, 6724-9	24	481
196	Scalable exfoliation process for highly soluble boron nitride nanoplatelets by hydroxide-assisted ball milling. <i>Nano Letters</i> , 2015 , 15, 1238-44	11.5	379
195	Versatile carbon hybrid films composed of vertical carbon nanotubes grown on mechanically compliant graphene films. <i>Advanced Materials</i> , 2010 , 22, 1247-52	24	282
194	Electrical and mechanical properties of carbon nanotube reinforced copper nanocomposites fabricated by electroless deposition process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 513-514, 247-253	5.3	238
193	Microstructures and tensile behavior of carbon nanotube reinforced Cu matrix nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 430, 27-33	5.3	222
192	Spark plasma sintering behavior of nanocrystalline WC ₁₀ Co cemented carbide powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 351, 31-38	5.3	201
191	Strengthening and toughening of carbon nanotube reinforced alumina nanocomposite fabricated by molecular level mixing process. <i>Scripta Materialia</i> , 2005 , 53, 793-797	5.6	200
190	Synergistic strengthening by load transfer mechanism and grain refinement of CNT/AlCu composites. <i>Carbon</i> , 2012 , 50, 2417-2423	10.4	184
189	High-strength carbon nanotube fibers fabricated by infiltration and curing of mussel-inspired catecholamine polymer. <i>Advanced Materials</i> , 2011 , 23, 1971-5	24	175
188	The role of interfacial oxygen atoms in the enhanced mechanical properties of carbon-nanotube-reinforced metal matrix nanocomposites. <i>Small</i> , 2008 , 4, 1936-40	11	157
187	Enhanced mechanical properties of epoxy nanocomposites by mixing noncovalently functionalized boron nitride nanoflakes. <i>Small</i> , 2013 , 9, 2602-10	11	155
186	Fabrication of high temperature oxides dispersion strengthened tungsten composites by spark plasma sintering process. <i>International Journal of Refractory Metals and Hard Materials</i> , 2009 , 27, 842-846	4.1	145
185	Microstructures of binderless tungsten carbides sintered by spark plasma sintering process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 356, 381-389	5.3	143
184	Improvement of modulus, strength and fracture toughness of CNT/Epoxy nanocomposites through the functionalization of carbon nanotubes. <i>Composites Part B: Engineering</i> , 2017 , 129, 169-179	10	136
183	Fabrication of carbon nanotube reinforced alumina matrix nanocomposite by sol-gel process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 395, 124-128	5.3	131

182	Effect of aspect ratios of in situ formed TiB whiskers on the mechanical properties of TiBw/TiBAl ₃ V composites. <i>Scripta Materialia</i> , 2012 , 66, 487-490	5.6	127
181	Functionalization of carbon nanotubes for fabrication of CNT/epoxy nanocomposites. <i>Materials and Design</i> , 2016 , 95, 1-8	8.1	125
180	Hardness and wear resistance of carbon nanotube reinforced Cu matrix nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 46-50	5.3	123
179	Generalized shear-lag model for load transfer in SiC/Al metal-matrix composites. <i>Journal of Materials Research</i> , 2003 , 18, 2851-2858	2.5	123
178	Enhanced conduction and charge-selectivity by N-doped graphene flakes in the active layer of bulk-heterojunction organic solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 3000	35.4	113
177	Ultra-high strength WNbMoTaV high-entropy alloys with fine grain structure fabricated by powder metallurgical process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 712, 616-624	5.3	113
176	Comparison to mechanical properties of epoxy nanocomposites reinforced by functionalized carbon nanotubes and graphene nanoplatelets. <i>Composites Part B: Engineering</i> , 2019 , 162, 283-288	10	108
175	Fabrication and properties of mechanically alloyed oxide-dispersed tungsten heavy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 363, 179-184	5.3	105
174	The fabrication process and mechanical properties of SiCp/AlSi metal matrix composites for automobile air-conditioner compressor pistons. <i>Journal of Materials Processing Technology</i> , 2001 , 113, 202-208	5.3	94
173	Direct Insulation-to-Conduction Transformation of Adhesive Catecholamine for Simultaneous Increases of Electrical Conductivity and Mechanical Strength of CNT Fibers. <i>Advanced Materials</i> , 2015 , 27, 3250-5	24	90
172	Simultaneous strengthening and toughening of reduced graphene oxide/alumina composites fabricated by molecular-level mixing process. <i>Carbon</i> , 2014 , 78, 212-219	10.4	90
171	Enhanced durability of polymer electrolyte membrane fuel cells by functionalized 2D boron nitride nanoflakes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7751-8	9.5	87
170	Microstructure and mechanical properties of mechanically alloyed and solid-state sintered tungsten heavy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 291, 91-96	5.3	87
169	Microstructure and mechanical properties of nanocrystalline WC-10Co cemented carbides. <i>Scripta Materialia</i> , 2001 , 44, 1535-1539	5.6	86
168	Combination of mechanical alloying and two-stage sintering of a 93W ₃ .6Ni ₁ .4Fe tungsten heavy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 344, 253-260	5.3	82
167	Effect of thermomechanical treatments on microstructure and properties of Cu-base leadframe alloy. <i>Journal of Materials Science</i> , 2000 , 35, 3641-3646	4.3	79
166	Enhanced Electrical Networks of Stretchable Conductors with Small Fraction of Carbon Nanotube/Graphene Hybrid Fillers. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3319-25	9.5	76
165	Microstructure and bonding mechanism of Al/Ti bonded joint using Al ₂ O ₃ /Si/Mg filler metal. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 355, 231-240	5.3	73

164	Fabrication process and thermal properties of SiCp/Al metal matrix composites for electronic packaging applications. <i>Journal of Materials Science</i> , 2000 , 35, 6231-6236	4.3	73
163	Mechanical properties of WC ₁₀ Co cemented carbides sintered from nanocrystalline spray conversion processed powders. <i>International Journal of Refractory Metals and Hard Materials</i> , 2001 , 19, 397-403	4.1	72
162	Influence of embedded-carbon nanotubes on the thermal properties of copper matrix nanocomposites processed by molecular-level mixing. <i>Scripta Materialia</i> , 2011 , 64, 181-184	5.6	71
161	Mechanical and electrical properties of cross-linked carbon nanotubes. <i>Carbon</i> , 2008 , 46, 482-488	10.4	69
160	Highly entangled carbon nanotube scaffolds by self-organized aqueous droplets. <i>Soft Matter</i> , 2009 , 5, 2343-2346	3.6	68
159	Interface analysis of ultra-high strength carbon nanotube/nickel composites processed by molecular level mixing. <i>Carbon</i> , 2013 , 57, 282-287	10.4	65
158	Effect of CNTs on precipitation hardening behavior of CNT/AlCu composites. <i>Carbon</i> , 2012 , 50, 4809-4814	10.4	62
157	Effects of vacuum hot pressing parameters on the tensile properties and microstructures of SiC-2124 Al composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 194, 165-170	5.3	60
156	Mechanical and Electrical Properties of Multiwalled CNT-Alumina Nanocomposites Prepared by a Sequential Two-Step Processing of Ultrasonic Spray Pyrolysis and Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2011 , 94, 3774-3779	3.8	56
155	Sintering behaviour and microstructures of carbides and nitrides for the inert matrix fuel by spark plasma sintering. <i>Journal of Nuclear Materials</i> , 2006 , 352, 341-348	3.3	56
154	Field-Emission Behavior of a Carbon-Nanotube-Implanted Co Nanocomposite Fabricated from Pearl-Necklace-Structured Carbon Nanotube/Co Powders. <i>Advanced Materials</i> , 2006 , 18, 553-558	24	53
153	Excellent strength-ductility combination in nickel-graphite nanoplatelet (GNP/Ni) nanocomposites. <i>Journal of Alloys and Compounds</i> , 2015 , 646, 135-144	5.7	52
152	Mechanical alloying process of 93W-5.6Ni-1.4Fe tungsten heavy alloy. <i>Journal of Materials Processing Technology</i> , 1997 , 63, 292-297	5.3	52
151	Reaction synthesis and microstructures of NiAl/Ni micro-laminated composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 396, 376-384	5.3	51
150	Tailored Field-Emission Property of Patterned Carbon Nitride Nanotubes by a Selective Doping of Substitutional N(sN) and Pyridine-like N(pN) Atoms. <i>Chemistry of Materials</i> , 2007 , 19, 2918-2920	9.6	50
149	Effects of hot extrusion parameters on the tensile properties and microstructures of SiCw-2124Al composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996 , 206, 225-232	5.3	50
148	Analytical study on the 3D-printed structure and mechanical properties of basalt fiber-reinforced PLA composites using X-ray microscopy. <i>Composites Science and Technology</i> , 2019 , 175, 18-27	8.6	49
147	Enhanced Capacitive Deionization by Dispersion of CNTs in Activated Carbon Electrode. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 1572-1579	8.3	48

146	Microstructures and mechanical properties of mechanically alloyed and spark plasma sintered Al _{0.3} CoCrFeMnNi high entropy alloy. <i>Materials Chemistry and Physics</i> , 2018 , 210, 62-70	4.4	47
145	Coating of carbon nanotubes on flexible substrate and its adhesion study. <i>Applied Surface Science</i> , 2009 , 255, 7084-7089	6.7	46
144	Ferromagnetic cobalt nanodots, nanorices, nanowires and nanoflowers by polyol process. <i>Journal of Materials Research</i> , 2005 , 20, 2148-2153	2.5	45
143	Effect of welding heat input on microstructure and mechanical properties of simulated HAZ in Cu containing microalloyed steel. <i>Journal of Materials Science</i> , 2010 , 45, 1248-1254	4.3	44
142	Bilayer thickness effects on nanoindentation behavior of Ag/Ni multilayers. <i>Scripta Materialia</i> , 2007 , 57, 703-706	5.6	43
141	Effect of fiber geometry on the elastic constants of the plain woven fabric reinforced aluminum matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 347, 346-358	5.3	43
140	The effect of amino-silane coupling agents having different molecular structures on the mechanical properties of basalt fiber-reinforced polyamide 6,6 composites. <i>Composites Part B: Engineering</i> , 2019 , 163, 511-521	10	43
139	Enhanced electromagnetic interference shielding behavior of Graphene Nanoplatelet/Ni/Wax nanocomposites. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6471-6479	7.1	42
138	Dynamic deformation behavior of an oxide-dispersed tungsten heavy alloy fabricated by mechanical alloying. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001 , 32, 2011-2020	2.3	41
137	Ordered, Scalable Heterostructure Comprising Boron Nitride and Graphene for High-Performance Flexible Supercapacitors. <i>Chemistry of Materials</i> , 2016 , 28, 7750-7756	9.6	41
136	The effect of HfC content on mechanical properties HfC _W composites. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014 , 44, 49-53	4.1	40
135	Mechanical behavior and failure process during compressive and shear deformation of honeycomb composite at elevated temperatures. <i>Journal of Materials Science</i> , 2002 , 37, 1265-1272	4.3	40
134	Microstructure and tensile behavior of Al and Al-matrix carbon nanotube composites processed by high pressure torsion of the powders. <i>Journal of Materials Science</i> , 2010 , 45, 4652-4658	4.3	39
133	Effect of two-stage sintering process on microstructure and mechanical properties of ODS tungsten heavy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 458, 323-329	5.3	39
132	Synergistic strengthening effect of ultrafine-grained metals reinforced with carbon nanotubes. <i>Small</i> , 2007 , 3, 840-4	11	37
131	High-entropy alloy strengthened by in situ formation of entropy-stabilized nano-dispersoids. <i>Scientific Reports</i> , 2018 , 8, 14085	4.9	37
130	Fabrication and mechanical properties of carbon fiber/epoxy nanocomposites containing high loadings of noncovalently functionalized graphene nanoplatelets. <i>Composites Science and Technology</i> , 2020 , 192, 108101	8.6	36
129	Enhancement of toughness and wear resistance in boron nitride nanoplatelet (BNNP) reinforced Si ₃ N ₄ nanocomposites. <i>Scientific Reports</i> , 2016 , 6, 27609	4.9	36

128	Characterization of elastic moduli of Cu thin films using nanoindentation technique. <i>Composites Science and Technology</i> , 2005 , 65, 1401-1408	8.6	36
127	Effect of WC/TiC grain size ratio on microstructure and mechanical properties of WC/TiC cemented carbides. <i>International Journal of Refractory Metals and Hard Materials</i> , 2006 , 24, 109-114	4.1	35
126	Highly dispersed carbon nanotubes in organic media for polymer:fullerene photovoltaic devices. <i>Carbon</i> , 2012 , 50, 40-46	10.4	34
125	Microstructure, mechanical property and Hall-Petch relationship of a light-weight refractory Al _{0.1} CrNbVMo high entropy alloy fabricated by powder metallurgical process. <i>Journal of Alloys and Compounds</i> , 2018 , 767, 1012-1021	5.7	33
124	Conformal coating of titanium suboxide on carbon nanotube networks by atomic layer deposition for inverted organic photovoltaic cells. <i>Carbon</i> , 2012 , 50, 4483-4488	10.4	31
123	Enhanced electrical properties in carbon nanotube/poly (3-hexylthiophene) nanocomposites formed through non-covalent functionalization. <i>Nano Research</i> , 2011 , 4, 1129-1135	10	31
122	Nanoporous cobalt foam and a Co/Co(OH) ₂ core-shell structure for electrochemical applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9802	13	30
121	Effect of mechanical alloying process on microstructure and mechanical properties of ODS tungsten heavy alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 434-435, 433-436	5.7	30
120	Strengthening of Al _{0.3} CoCrFeMnNi-based ODS high entropy alloys with incremental changes in the concentration of Y ₂ O ₃ . <i>Scripta Materialia</i> , 2019 , 162, 477-481	5.6	30
119	Corrosion resistance of weight reduced Al _x CrFeMoV high entropy alloys. <i>Applied Surface Science</i> , 2019 , 485, 368-374	6.7	29
118	Synergistic outstanding strengthening behavior of graphene/copper nanocomposites. <i>Composites Part B: Engineering</i> , 2019 , 176, 107235	10	28
117	Effect of liquid phase composition on the microstructure and properties of (W,Ti)C cemented carbide cutting tools. <i>International Journal of Refractory Metals and Hard Materials</i> , 2009 , 27, 83-89	4.1	28
116	Effect of oxidation of SiC particles on mechanical properties and wear behavior of SiCp/Al6061 composites. <i>Journal of Alloys and Compounds</i> , 2018 , 769, 282-292	5.7	27
115	Effect of size and location of spherical pores on transverse rupture strength of WC-Co cemented carbides. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 486, 404-408	5.3	27
114	The effects of deformation twins and strain-induced γ -martensite on mechanical properties of an Fe-32Mn-12Cr-0.4C cryogenic alloy. <i>Scripta Metallurgica Et Materialia</i> , 1995 , 32, 1489-1494		27
113	High conductivity and stretchability of 3D welded silver nanowire filled graphene aerogel hybrid nanocomposites. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8211-8218	7.1	27
112	Transition in microstructural and mechanical behavior by reduction of sigma-forming element content in a novel high entropy alloy. <i>Materials and Design</i> , 2018 , 145, 11-19	8.1	26
111	Strength versus ductility in carbon nanotube reinforced nickel matrix nanocomposites. <i>Journal of Materials Research</i> , 2014 , 29, 761-769	2.5	26

110	Ice-Templated Bimodal-Porous Silver Nanowire/PDMS Nanocomposites for Stretchable Conductor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21666-21671	9.5	25
109	Enhanced mechanical properties of spark plasma sintered NiTi composites reinforced with carbon nanotubes. <i>Journal of Alloys and Compounds</i> , 2014 , 617, 505-510	5.7	25
108	Effect of oxide dispersoids addition on mechanical properties of tungsten heavy alloy fabricated by mechanical alloying process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 452-453, 55-60	5.3	25
107	A new hybrid architecture consisting of highly mesoporous CNT/carbon nanofibers from starch. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20554		24
106	Matrix pools in a partially mechanically alloyed tungsten heavy alloy for localized shear deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 333, 187-192	5.3	24
105	Design and application of carbon nanomaterials for photoactive and charge transport layers in organic solar cells. <i>Nano Convergence</i> , 2016 , 3, 8	9.2	24
104	Biomimetic Artificial Nacre: Boron Nitride Nanosheets/Gelatin Nanocomposites for Biomedical Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1805948	15.6	23
103	Polycrystalline cubic boron nitride sintered compacts prepared from nanocrystalline TiN coated cBN powder. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 552, 151-156	5.3	22
102	Elevated temperature ablation resistance of HfC particle-reinforced tungsten composites. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014 , 43, 89-93	4.1	21
101	The effect of Al on mechanical properties and microstructures of Fe-32Mn-12Cr-xAl-0.4C cryogenic alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 222, 76-83	5.3	21
100	Intermixing criteria for reaction synthesis of Ni/Al multilayered microfoils. <i>Scripta Materialia</i> , 2006 , 54, 1715-1719	5.6	21
99	Surface modification effects of SiC tile on the wettability and interfacial bond strength of SiC tile/Al7075-SiCp hybrid composites. <i>Surface and Coatings Technology</i> , 2016 , 307, 399-406	4.4	21
98	In-situ synthesis of TiC/Fe alloy composites with high strength and hardness by reactive sintering. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 1397-1404	9.1	19
97	Enhancement of the mechanical properties of basalt fiber-reinforced polyamide 6,6 composites by improving interfacial bonding strength through plasma-polymerization. <i>Composites Science and Technology</i> , 2019 , 182, 107756	8.6	19
96	Mechanical and electrical properties of carbon nanotube/Cu nanocomposites by molecular-level mixing and controlled oxidation process. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 78-84	1.3	19
95	Effect of binder compositions on microstructure, hardness and magnetic properties of (Ta,Nb)C/Co and (Ta,Nb)C/Ni cemented carbides. <i>International Journal of Refractory Metals and Hard Materials</i> , 2009 , 27, 669-675	4.1	19
94	Strength enhancement and density reduction by the addition of Al in CrFeMoV based high-entropy alloy fabricated through powder metallurgy. <i>Materials and Design</i> , 2018 , 157, 97-104	8.1	18
93	Hardness and wear resistance of carbon nanotube reinforced aluminum-copper matrix composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 9134-8	1.3	18

92	Microstructure and mechanical properties of SiC-nanowire-augmented tungsten composites. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9060-9064	5.7	18
91	Salting-out as a scalable, in-series purification method of graphene oxides from microsheets to quantum dots. <i>Carbon</i> , 2013 , 63, 45-53	10.4	17
90	Microstructure and mechanical properties of CNT/Ag nanocomposites fabricated by spark plasma sintering. <i>Journal of Experimental Nanoscience</i> , 2014 , 9, 588-596	1.9	17
89	Mechanism for controlling the shape of Cu nanocrystals prepared by the polyol process. <i>Journal of Materials Research</i> , 2006 , 21, 2371-2378	2.5	17
88	Effect of elastic interaction energy on coarsening of γ precipitates in a mechanically alloyed ODS Ni-base superalloy. <i>Journal of Materials Science</i> , 1999 , 34, 329-336	4.3	17
87	High temperature deformation behavior of 20 vol.% metal matrix composite. <i>Scripta Metallurgica Et Materialia</i> , 1994 , 30, 297-302		17
86	Morphology-controlled synthesis of Co ₃ O ₄ composites with bio-inspired carbons as high-performance supercapacitor electrode materials. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 74, 96-102	6.3	17
85	Fabrication of ZrO ₂ -based nanocomposites for transuranic element-burning inert matrix fuel. <i>Nuclear Engineering and Technology</i> , 2015 , 47, 617-623	2.6	16
84	3D microstructural characterization and mechanical properties determination of short basalt fiber-reinforced polyamide 6,6 composites. <i>Composites Part B: Engineering</i> , 2020 , 187, 107839	10	16
83	Modification of anisotropic mechanical properties in recrystallized oxide dispersion strengthened ferritic alloy. <i>Scripta Materialia</i> , 2006 , 54, 1703-1707	5.6	15
82	Effects of silanization and modification treatments on the stiffness and toughness of BF/SEBS/PA6,6 hybrid composites. <i>Composites Part B: Engineering</i> , 2019 , 173, 106922	10	14
81	Strengthening effect of melamine functionalized low-dimension carbon at fiber reinforced polymer composites and their interlaminar shear behavior. <i>Composites Part B: Engineering</i> , 2019 , 173, 106976	10	14
80	Fabrication of protective-coated SiC reinforced tungsten matrix composites with reduced reaction phases by spark plasma sintering. <i>Metals and Materials International</i> , 2016 , 22, 493-500	2.4	14
79	High Temperature Deformation Behavior and Microstructural Evolution of Ti-47Al-2Cr-4Nb Intermetallic Alloys. <i>Scripta Materialia</i> , 1998 , 38, 1517-1523	5.6	14
78	Fabrication of biomorphic SiC composites using wood preforms with different structures. <i>Ceramics International</i> , 2012 , 38, 3089-3095	5.1	13
77	Superior mechanical properties and strengthening mechanisms of lightweight Al _x CrNbVMo refractory high-entropy alloys (x = 0, 0.5, 1.0) fabricated by the powder metallurgy process. <i>Journal of Materials Science and Technology</i> , 2021 , 69, 32-41	9.1	13
76	Fabrication of TiN/cBN and TiC/diamond coated particles by titanium deposition process. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 3562-3570	3.3	12
75	The effects of thermo-mechanical treatments on superplasticity of Fe-24Cr-7Ni-3Mo-0.14N duplex stainless steel. <i>Scripta Materialia</i> , 1997 , 36, 557-563	5.6	12

74	Characterization of Carbon Nanotubes/Cu Nanocomposites Processed by Using Nano-sized Cu Powders. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 821, 134		12
73	The design and fabrication of a multilayered graded GNP/Ni/PMMA nanocomposite for enhanced EMI shielding behavior.. <i>RSC Advances</i> , 2019 , 9, 11289-11295	3.7	11
72	Non-covalently functionalized single walled carbon nanotube/poly(3,4ethylenedioxythiophene):poly(styrenesulfonate) nanocomposites for organic photovoltaic cell. <i>Synthetic Metals</i> , 2013 , 181, 92-97	3.6	11
71	Synthesis of multi-walled carbon nanotube/silver nanocomposite powders by chemical reduction in aqueous solution. <i>Journal of Experimental Nanoscience</i> , 2013 , 8, 742-751	1.9	11
70	Analytical modeling to calculate the hardness of ultra-fine WC ₁₀ cemented carbides. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 489, 234-244	5.3	11
69	Analysis of creep behavior of SiC/Al metal matrix composites based on a generalized shear-lag model. <i>Journal of Materials Research</i> , 2004 , 19, 3633-3640	2.5	11
68	Enhanced mechanical and wear properties of Al6061 alloy nanocomposite reinforced by CNT-template-grown core-shell CNT/SiC nanotubes. <i>Scientific Reports</i> , 2020 , 10, 12896	4.9	11
67	Facile method to sort graphene quantum dots by size through ammonium sulfate addition. <i>RSC Advances</i> , 2014 , 4, 56848-56852	3.7	10
66	Effects of microstructure on flexural strength of biomorphic C/SiC composites. <i>International Journal of Fracture</i> , 2008 , 151, 233-245	2.3	10
65	Fabrication, microstructure and mechanical property of a novel Nb-rich refractory high-entropy alloy strengthened by in-situ formation of dispersoids. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019 , 81, 15-20	4.1	10
64	The outstanding tensile strength of Ni-rich high entropy superalloy fabricated by powder metallurgical process. <i>Materials Chemistry and Physics</i> , 2019 , 235, 121749	4.4	9
63	Fabrication of Al ₂ O ₃ /AlN micro-composites designed for tailored physical properties. <i>Materials and Design</i> , 2015 , 86, 1-5	8.1	9
62	Enhanced mechanical properties of boron nitride nanosheet/copper nanocomposites via a molecular-level mixing process. <i>Composites Part B: Engineering</i> , 2020 , 195, 108088	10	9
61	Microstructures and enhanced mechanical properties of an oxide dispersion-strengthened Ni-rich high entropy superalloy fabricated by a powder metallurgical process. <i>Journal of Alloys and Compounds</i> , 2020 , 839, 155724	5.7	9
60	Sintering behavior, microstructural evolution, and mechanical properties of ultra-fine grained alumina synthesized via in-situ spark plasma sintering. <i>Ceramics International</i> , 2016 , 42, 4290-4297	5.1	9
59	High temperature ablation resistance of ZrNp reinforced W matrix composites. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014 , 42, 17-22	4.1	9
58	Fabrication process and electromagnetic wave absorption characterization of a CNT/Ni/epoxy nanocomposite. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 7669-74	1.3	9
57	Globularization Behavior of ELI Grade Ti-6Al-4V Alloy during Non-Isothermal Multi-Step Forging. <i>Materials Transactions</i> , 2008 , 49, 215-223	1.3	9

56	Effects of Austenite Conditioning on Austenite/Ferrite Phase Transformation of HSLA Steel. <i>Materials Transactions</i> , 2004 , 45, 137-142	1.3	9
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