

Xuanhui Qu

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371
papers

7,730
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47
h-index

69
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383
ext. papers

9,561
ext. citations

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6.38
L-index

#	Paper	IF	Citations
371	Bamboo-Like Hollow Tubes with MoS ₂ /N-Doped-C Interfaces Boost Potassium-Ion Storage. <i>Advanced Functional Materials</i> , 2018 , 28, 1803409	15.6	188
370	Polyaniline nanofibers obtained by interfacial polymerization for high-rate supercapacitors. <i>Electrochimica Acta</i> , 2010 , 56, 964-968	6.7	183
369	Review of metal matrix composites with high thermal conductivity for thermal management applications. <i>Progress in Natural Science: Materials International</i> , 2011 , 21, 189-197	3.6	167
368	Enhanced Performance of CdS/CdSe Quantum Dot Cosensitized Solar Cells via Homogeneous Distribution of Quantum Dots in TiO ₂ Film. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18655-18662	3.8	158
367	Effect of coating on the microstructure and thermal conductivities of diamond/Cu composites prepared by powder metallurgy. <i>Composites Science and Technology</i> , 2011 , 71, 1550-1555	8.6	138
366	Effects of the functional groups on the electrochemical properties of ordered porous carbon for supercapacitors. <i>Electrochimica Acta</i> , 2013 , 105, 299-304	6.7	132
365	Self-supporting Si/Reduced Graphene Oxide nanocomposite films as anode for lithium ion batteries. <i>Electrochemistry Communications</i> , 2011 , 13, 1332-1335	5.1	122
364	Facile synthesis of ordered porous Si@C nanorods as anode materials for Li-ion batteries. <i>Electrochimica Acta</i> , 2012 , 71, 194-200	6.7	120
363	ZnO/TiO ₂ nanocable structured photoelectrodes for CdS/CdSe quantum dot co-sensitized solar cells. <i>Nanoscale</i> , 2013 , 5, 936-43	7.7	115
362	Hollow core-shell structured Si/C nanocomposites as high-performance anode materials for lithium-ion batteries. <i>Nanoscale</i> , 2014 , 6, 3138-42	7.7	112
361	Architected ZnO photoelectrode for high efficiency quantum dot sensitized solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 3542	35.4	107
360	The rheology of metal injection molding. <i>Journal of Materials Processing Technology</i> , 2003 , 137, 132-137	5.3	102
359	Y ₂ O ₃ evolution and dispersion refinement in Co-base ODS alloys. <i>Acta Materialia</i> , 2009 , 57, 3671-3682	8.4	93
358	Hollow Multihole Carbon Bowls: A Stress-Release Structure Design for High-Stability and High-Volumetric-Capacity Potassium-Ion Batteries. <i>ACS Nano</i> , 2019 , 13, 11363-11371	16.7	91
357	Effect of molybdenum as interfacial element on the thermal conductivity of diamond/Cu composites. <i>Journal of Alloys and Compounds</i> , 2012 , 529, 134-139	5.7	89
356	Sandwich-Like Heterostructures of MoS ₂ /Graphene with Enlarged Interlayer Spacing and Enhanced Hydrophilicity as High-Performance Cathodes for Aqueous Zinc-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2007480	24	89
355	Preparation of copper/diamond composites with chromium carbide coatings on diamond particles for heat sink applications. <i>Applied Thermal Engineering</i> , 2013 , 60, 423-429	5.8	79

354	Properties and microstructure of nickel-coated graphite flakes/copper composites fabricated by spark plasma sintering. <i>Carbon</i> , 2017 , 121, 25-34	10.4	73
353	Significantly Improved Dehydrogenation of LiAlH ₄ Destabilized by MnFe ₂ O ₄ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11939-11945	3.8	70
352	Porous polyaniline exhibits highly enhanced electrochemical capacitance performance. <i>Electrochimica Acta</i> , 2010 , 55, 5819-5822	6.7	70
351	Thermophysical properties and microstructure of graphite flake/copper composites processed by electroless copper coating. <i>Journal of Alloys and Compounds</i> , 2014 , 587, 255-259	5.7	69
350	Catalytic effects of nano-sized TiC additions on the hydrogen storage properties of LiAlH ₄ . <i>Journal of Alloys and Compounds</i> , 2010 , 508, 119-128	5.7	68
349	Effect of Mg and Si in the aluminum on the thermo-mechanical properties of pressureless infiltrated SiCp/Al composites. <i>Composites Science and Technology</i> , 2007 , 67, 2103-2113	8.6	68
348	High-throughput fabrication of 3D N-doped graphenic framework coupled with Fe ₃ C@porous graphite carbon for ultrastable potassium ion storage. <i>Energy Storage Materials</i> , 2019 , 22, 185-193	19.4	67
347	Zero-strain K _{0.6} Mn ₁ F _{2.7} hollow nanocubes for ultrastable potassium ion storage. <i>Energy and Environmental Science</i> , 2018 , 11, 3033-3042	35.4	67
346	Constructing ZnO nanorod array photoelectrodes for highly efficient quantum dot sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6770	13	67
345	Multiscale organic-induced scalable synthesis of a mesoporous MoS ₂ -monolayer/carbon composite for high-performance lithium and potassium storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11147-11153	11.3	67
344	One pot solution combustion synthesis of highly mesoporous hematite for photocatalysis. <i>Ceramics International</i> , 2015 , 41, 2806-2812	5.1	66
343	Unprecedented Synthesis of Holey 2D Layered Double Hydroxide Nanomesh for Enhanced Oxygen Evolution. <i>Advanced Energy Materials</i> , 2019 , 9, 1803060	21.8	65
342	Selective electron beam melting of NiTi: Microstructure, phase transformation and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 744, 290-298	5.3	60
341	The effect of reduction time on the surface functional groups and supercapacitive performance of graphene nanosheets. <i>Carbon</i> , 2012 , 50, 3724-3730	10.4	59
340	Fabrication, mechanical properties and electrical conductivity of Al ₂ O ₃ reinforced Cu/CNTs composites. <i>Journal of Alloys and Compounds</i> , 2019 , 782, 1015-1023	5.7	59
339	In situ synthesis of TiO ₂ @graphene nanosheets composites as anode materials for high-power lithium ion batteries. <i>Electrochimica Acta</i> , 2012 , 69, 328-333	6.7	58
338	MgH ₂ dehydrogenation properties improved by MnFe ₂ O ₄ nanoparticles. <i>Journal of Power Sources</i> , 2013 , 239, 201-206	8.9	58
337	Effect of controlled interfacial reaction on the microstructure and properties of the SiCp/Al composites prepared by pressureless infiltration. <i>Journal of Alloys and Compounds</i> , 2008 , 455, 424-431	5.7	58

- 336 Bifunctional biomass-derived 3D nitrogen-doped porous carbon for oxygen reduction reaction and solid-state supercapacitor. *Applied Surface Science*, **2019**, 465, 303-312 6.7 57
- 335 Dehydrogenation Improvement of LiAlH₄ Catalyzed by Fe₂O₃ and Co₂O₃ Nanoparticles. *Journal of Physical Chemistry C*, **2013**, 117, 18343-18352 3.8 53
- 334 Chemically bubbled hollow Fe₃O₄ nanospheres anchored on 3D N-doped few-layer graphene architecture as a performance-enhanced anode material for potassium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 744-754 13 52
- 333 Hydrogen Sorption Improvement of LiAlH₄ Catalyzed by Nb₂O₅ and Cr₂O₃ Nanoparticles. *Journal of Physical Chemistry C*, **2011**, 115, 13088-13099 3.8 52
- 332 Bifunctional biomass-derived N, S dual-doped ladder-like porous carbon for supercapacitor and oxygen reduction reaction. *Journal of Alloys and Compounds*, **2019**, 773, 11-20 5.7 52
- 331 Effect of matrix-alloying-element chromium on the microstructure and properties of graphite flakes/copper composites fabricated by hot pressing sintering. *Carbon*, **2018**, 127, 412-423 10.4 51
- 330 Microstructure and thermal properties of copper/diamond composites with tungsten carbide coating on diamond particles. *Materials Characterization*, **2015**, 105, 18-23 3.9 50
- 329 Effect of nitrogen on the electrochemical performance of core-shell structured Si/C nanocomposites as anode materials for Li-ion batteries. *Electrochimica Acta*, **2013**, 89, 394-399 6.7 50
- 328 The multi-yolk/shell structure of FeP@foam-like graphenic scaffolds: strong P-C bonds and electrolyte- and binder-optimization boost potassium storage. *Journal of Materials Chemistry A*, **2019**, 7, 15673-15682 13 48
- 327 Scalable synthesis of VN quantum dots encapsulated in ultralarge pillared N-doped mesoporous carbon microsheets for superior potassium storage. *Energy Storage Materials*, **2019**, 18, 43-50 19.4 48
- 326 Selective laser sintered porous Ti₄₀Mo alloys for biomedical applications: Structural characteristics, mechanical properties and corrosion behaviour. *Corrosion Science*, **2015**, 95, 117-124 6.8 47
- 325 Interweaved Si@SiO_x/C nanoporous spheres as anode materials for Li-ion batteries. *Solid State Ionics*, **2012**, 220, 1-6 3.3 47
- 324 Low temperature hydrothermal synthesis of nano-sized manganese oxide for supercapacitors. *Electrochimica Acta*, **2012**, 66, 302-305 6.7 46
- 323 Superior Catalytic Effect of Nickel Ferrite Nanoparticles in Improving Hydrogen Storage Properties of MgH₂. *Journal of Physical Chemistry C*, **2015**, 119, 2925-2934 3.8 46
- 322 Synthesis of aluminum nitride powder by carbothermal reduction of a combustion synthesis precursor. *Materials Research Bulletin*, **2008**, 43, 2954-2960 5.1 46
- 321 Facile synthesis of novel bowl-like hollow carbon spheres by the combination of hydrothermal carbonization and soft templating. *Chemical Communications*, **2017**, 53, 2922-2925 5.8 44
- 320 Tungsten carbide/carbon composite synthesized by combustion-carbothermal reduction method as electrocatalyst for hydrogen evolution reaction. *International Journal of Hydrogen Energy*, **2016**, 41, 13005-13013 6.7 44
- 319 Superior Catalytic Effects of Nb₂O₅, TiO₂, and Cr₂O₃ Nanoparticles in Improving the Hydrogen Sorption Properties of NaAlH₄. *Journal of Physical Chemistry C*, **2012**, 116, 11924-11938 3.8 43

318	Effect of molybdenum carbide intermediate layers on thermal properties of copper/diamond composites. <i>Journal of Alloys and Compounds</i> , 2013 , 576, 380-385	5.7	41
317	Crystal structure and morphology of a new compound, LiB. <i>Journal of Alloys and Compounds</i> , 2000 , 311, 256-264	5.7	41
316	Significantly improved dehydrogenation of ball-milled MgH ₂ doped with CoFe ₂ O ₄ nanoparticles. <i>Journal of Power Sources</i> , 2014 , 268, 778-786	8.9	39
315	NiFe ₂ O ₄ Nanoparticles Catalytic Effects of Improving LiAlH ₄ Dehydrogenation Properties. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25917-25925	3.8	39
314	Study on methods to strengthen SiC preforms for SiCp/Al composites by pressureless infiltration. <i>Journal of Alloys and Compounds</i> , 2009 , 468, 158-163	5.7	39
313	Enhanced hydrogen storage performance for MgH ₂ /LiAlH ₄ system: the effects of stoichiometry and Nb ₂ O ₅ nanoparticles on cycling behaviour. <i>RSC Advances</i> , 2012 , 2, 4891	3.7	38
312	Net-shape forming and properties of high volume fraction SiCp/Al composites. <i>Journal of Alloys and Compounds</i> , 2009 , 484, 256-262	5.7	38
311	Influence of Ti content on the microstructure and properties of graphite flake/Cu-Ti composites fabricated by vacuum hot pressing. <i>Vacuum</i> , 2017 , 141, 265-271	3.7	37
310	Facile route for synthesis of mesoporous Cr ₂ O ₃ sheet as anode materials for Li-ion batteries. <i>Electrochimica Acta</i> , 2014 , 139, 76-81	6.7	37
309	Microstructure and mechanical properties of high Nb containing TiAl alloy parts fabricated by metal injection molding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 526, 31-37	5.3	37
308	Effects of Mo content on corrosion and tribocorrosion behaviours of Ti-Mo orthopaedic alloys fabricated by powder metallurgy. <i>Corrosion Science</i> , 2020 , 168, 108557	6.8	36
307	A synergetic strategy for an advanced electrode with Fe ₃ O ₄ embedded in a 3D N-doped porous graphene framework and a strong adhesive binder for lithium/potassium ion batteries with an ultralong cycle lifespan. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19430-19441	13	36
306	Optimization of Von Mises Stress Distribution in Mesoporous Fe ₂ O ₃ /C Hollow Bowls Synergistically Boosts Gravimetric/Volumetric Capacity and High-Rate Stability in Alkali-Ion Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1902822	15.6	35
305	Optimized thermal conductivity of diamond/Cu composite prepared with tungsten-copper-coated diamond particles by vacuum sintering technique. <i>Vacuum</i> , 2018 , 153, 74-81	3.7	35
304	Experimental and modeling study of the thermal conductivity of SiCp/Al composites with bimodal size distribution. <i>Journal of Materials Science</i> , 2009 , 44, 4370-4378	4.3	35
303	The rheological and sintering behavior of W/NiFe nano-structured crystalline powder. <i>Journal of Materials Processing Technology</i> , 2003 , 137, 177-182	5.3	35
302	Fabrication of commercial pure Ti by selective laser melting using hydride-dehydride titanium powders treated by ball milling. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 322-327	9.1	35
301	Fabrication and thermal conductivity of copper matrix composites reinforced with Mo ₂ C or TiC coated graphite fibers. <i>Materials Research Bulletin</i> , 2013 , 48, 4811-4817	5.1	34

300	Recent advances in electrospun electrode materials for sodium-ion batteries. <i>Journal of Energy Chemistry</i> , 2021 , 54, 225-241	12	34
299	Effect of glycine on one-step solution combustion synthesis of magnetite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2017 , 719, 288-295	5.7	33
298	Tuning Metallic CoSe Quantum Dots/Carbon Hollow Polyhedrons with Tertiary Hierarchical Structure for High-Performance Potassium Ion Batteries. <i>Nano-Micro Letters</i> , 2019 , 11, 96	19.5	33
297	Preparation of high thermal conductivity copper/diamond composites using molybdenum carbide-coated diamond particles. <i>Journal of Materials Science</i> , 2013 , 48, 6133-6140	4.3	33
296	Synthesis and characterization of Sn-doped hematite as visible light photocatalyst. <i>Materials Research Bulletin</i> , 2016 , 77, 41-47	5.1	32
295	Citric Acid-Assisted Combustion-Carbothermal Synthesis of Well-Distributed Highly Sinterable AlN Nanopowders. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2510-2515	3.8	31
294	Effect of urea on the size and morphology of AlN nanoparticles synthesized from combustion synthesis precursors. <i>Journal of Alloys and Compounds</i> , 2012 , 530, 144-151	5.7	31
293	Dehydrogenation mechanism of ball-milled MgH ₂ doped with ferrites (CoFe ₂ O ₄ , ZnFe ₂ O ₄ , Mn _{0.5} Zn _{0.5} Fe ₂ O ₄) nanoparticles. <i>Journal of Alloys and Compounds</i> , 2015 , 643, 174-180	5.7	30
292	Improved adhesion of cross-linked binder and SiO ₂ -coating enhances structural and cyclic stability of silicon electrodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2020 , 454, 227907	8.9	30
291	Effects of Porosity on Mechanical Properties and Corrosion Resistances of PM-Fabricated Porous Ti-10Mo Alloy. <i>Metals</i> , 2018 , 8, 188	2.3	29
290	Thermal evolution behavior of carbides and δ precipitates in FGH96 superalloy powder. <i>Materials Characterization</i> , 2012 , 67, 52-64	3.9	29
289	Compaction of Ti ₃ Al ₂ V powder using high velocity compaction technique. <i>Materials & Design</i> , 2013 , 50, 479-483		29
288	Preparation and properties of porous Ti-10Mo alloy by selective laser sintering. <i>Materials Science and Engineering C</i> , 2013 , 33, 1085-90	8.3	29
287	Pressureless two-step sintering of ultrafine-grained tungsten. <i>Acta Materialia</i> , 2020 , 186, 116-123	8.4	29
286	Influence of process parameters on the characteristics of TiAl alloyed powders by fluidized bed jet milling. <i>Powder Technology</i> , 2014 , 254, 235-240	5.2	28
285	Carbothermal synthesis of ZrC powders using a combustion synthesis precursor. <i>International Journal of Refractory Metals and Hard Materials</i> , 2013 , 36, 204-210	4.1	28
284	Improved hydrogen storage performances of MgH ₂ /AlH ₃ system catalyzed by TiO ₂ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2014 , 604, 317-324	5.7	28
283	Microstructure, wear resistance, and corrosion performance of Ti ₃₅ Zr ₂₈ Nb alloy fabricated by powder metallurgy for orthopedic applications. <i>Journal of Materials Science and Technology</i> , 2020 , 41, 191-198	9.1	28

282	Enhanced hydrogen storage properties of LiAlH ₄ catalyzed by CoFe ₂ O ₄ nanoparticles. <i>RSC Advances</i> , 2014 , 4, 18989-18997	3.7	27
281	Combustion synthesis and excellent photocatalytic degradation properties of W ₁₈ O ₄₉ . <i>CrystEngComm</i> , 2015 , 17, 5889-5894	3.3	26
280	Improved Hydrogen Storage Performance of MgH ₂ /LiAlH ₄ Composite by Addition of MnFe ₂ O ₄ . <i>Journal of Physical Chemistry C</i> , 2013 , 117, 26940-26947	3.8	26
279	Influence of carbon on the synthesis of AlN powder from combustion synthesis precursors. <i>Journal of the European Ceramic Society</i> , 2009 , 29, 795-799	6	26
278	Effect of Si addition to Al/Mg alloy on the microstructure and thermo-physical properties of SiCp/Al composites prepared by pressureless infiltration. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 138, 263-270	3.1	26
277	Collaborative Design of Hollow Nanocubes, In Situ Cross-Linked Binder, and Amorphous Void@SiO ₂ @C as a Three-Pronged Strategy for Ultrastable Lithium Storage. <i>Small</i> , 2020 , 16, e1905736	11	26
276	Molecular Engineering on MoS ₂ Enables Large Interlayers and Unlocked Basal Planes for High-Performance Aqueous Zn-Ion Storage. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20286-20293	16.4	26
275	The influence of reagents on the preparation of Cu nanowires by tetradecylamine-assisted hydrothermal method. <i>Journal of Materials Science</i> , 2013 , 48, 4073-4080	4.3	25
274	Novel porous Ti ₃₅ Zr ₂₈ Nb scaffolds fabricated by powder metallurgy with excellent osteointegration ability for bone-tissue engineering applications. <i>Materials Science and Engineering C</i> , 2019 , 105, 110015	8.3	24
273	Effect of aluminum source on the synthesis of AlN powders from combustion synthesis precursors. <i>Materials Research Bulletin</i> , 2012 , 47, 2475-2479	5.1	24
272	Microstructure and thermo-mechanical properties of pressureless infiltrated SiCp/Cu composites. <i>Composites Science and Technology</i> , 2008 , 68, 2731-2738	8.6	24
271	A new type of binder for metal injection molding. <i>Journal of Materials Processing Technology</i> , 2003 , 137, 70-73	5.3	24
270	Hollow Porous VO/C Nanoscrolls as High-Performance Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25954-25961	9.5	24
269	Effects of different forms of Fe powder additives on the simulated braking performance of Cu-based friction materials for high-speed railway trains. <i>Wear</i> , 2018 , 414-415, 317-326	3.5	24
268	Low-cost Ti powders for additive manufacturing treated by fluidized bed. <i>Powder Technology</i> , 2019 , 350, 117-122	5.2	23
267	Superior destabilization effects of LiBH ₄ with the addition of nano-sized nickel ferrite NiFe ₂ O ₄ . <i>RSC Advances</i> , 2015 , 5, 81212-81219	3.7	23
266	Effects of Cobalt on the structure and mechanical behavior of non-equal molar Co _x Fe _{50-x} Cr ₂₅ Ni ₂₅ high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 723, 221-228	5.3	23
265	Effect of alloying element Zr on the microstructure and properties of graphite flake/Cu composites fabricated by vacuum hot pressing. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 267-275	5.7	23

264	Effect of chromium carbide coating on thermal properties of short graphite fiber/Al composites. <i>Journal of Materials Science</i> , 2014 , 49, 6705-6715	4.3	22
263	One-pot synthesis of Cu/carbon hybrid hollow spheres. <i>Carbon</i> , 2013 , 62, 472-480	10.4	22
262	Porous Ti-10Mo alloy fabricated by powder metallurgy for promoting bone regeneration. <i>Science China Materials</i> , 2019 , 62, 1053-1064	7.1	21
261	Marcasite-FeS ₂ @carbon nanodots anchored on 3D cell-like graphenic matrix for high-rate and ultrastable potassium ion storage. <i>Journal of Power Sources</i> , 2020 , 469, 228429	8.9	21
260	Transformation Induced Plasticity Effects of a Non-Equal Molar Co-Cr-Fe-Ni High Entropy Alloy System. <i>Metals</i> , 2018 , 8, 369	2.3	21
259	Fabrication and properties of newly developed Ti35Zr28Nb scaffolds fabricated by powder metallurgy for bone-tissue engineering. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 3696-3704	5.5	21
258	Hot deformation behavior of Co-base ODS alloys. <i>Journal of Alloys and Compounds</i> , 2012 , 512, 39-46	5.7	21
257	Facile preparation of network-like porous hematite (Fe ₂ O ₃) nanosheets via a novel combustion-based route. <i>Ceramics International</i> , 2016 , 42, 10380-10388	5.1	21
256	Solution combustion synthesis of nanostructured iron oxides with controllable morphology, composition and electrochemical performance. <i>Ceramics International</i> , 2018 , 44, 4237-4247	5.1	21
255	NaAlH ₄ dehydrogenation properties enhanced by MnFe ₂ O ₄ nanoparticles. <i>Journal of Power Sources</i> , 2014 , 248, 388-395	8.9	20
254	Fabrication and thermal conductivity of short graphite fiber/Al composites by vacuum pressure infiltration. <i>Journal of Composite Materials</i> , 2014 , 48, 2207-2214	2.7	20
253	Solution combustion synthesis of crystalline V ₂ O ₃ and amorphous V ₂ O ₃ /C as anode for lithium-ion battery. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2643-2652	3.8	20
252	Particle size distribution control and related properties improvements of tungsten powders by fluidized bed jet milling. <i>Advanced Powder Technology</i> , 2017 , 28, 1603-1610	4.6	19
251	Improved dehydrogenation performance of NaAlH ₄ using NiFe ₂ O ₄ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2017 , 709, 850-856	5.7	19
250	Microstructure and thermal expansion behavior of diamond/SiC/(Si) composites fabricated by reactive vapor infiltration. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 1139-1147	6	19
249	Fabrication and thermal conductivity of near-net-shaped diamond/copper composites by pressureless infiltration. <i>Journal of Materials Science</i> , 2011 , 46, 3862-3867	4.3	19
248	Enhanced magnetic properties of iron-based soft magnetic composites with phosphate-polyimide insulating layer. <i>Journal of Alloys and Compounds</i> , 2020 , 813, 152205	5.7	19
247	Fade behaviour of copper-based brake pad during cyclic emergency braking at high speed and overload condition. <i>Wear</i> , 2019 , 428-429, 10-23	3.5	19

246	Current state-of-the-art characterization techniques for probing the layered oxide cathode materials of sodium-ion batteries. <i>Energy Storage Materials</i> , 2021 , 35, 400-430	19.4	19
245	Advanced characterizations and measurements for sodium-ion batteries with NASICON-type cathode materials. <i>EScience</i> , 2021 ,		19
244	High thermal conductivity of diamond/copper composites produced with Cu ₂ C double-layer coated diamond particles. <i>Journal of Materials Science</i> , 2018 , 53, 8978-8988	4.3	18
243	Microstructure and mechanical properties of Cr-rich Co-Cr-Fe-Ni high entropy alloys designed by valence electron concentration. <i>Materials Chemistry and Physics</i> , 2019 , 238, 121897	4.4	18
242	Comparative research on high-velocity compaction and conventional rigid die compaction. <i>Frontiers of Materials Science in China</i> , 2009 , 3, 447-451		18
241	Facile solution combustion synthesis of MoO ₂ nanoparticles as efficient photocatalysts. <i>CrystEngComm</i> , 2017 , 19, 6516-6526	3.3	17
240	Microstructure and properties of CuCr alloy manufactured by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2019 , 786, 189-197	5.7	17
239	The development of metal hydrides using as concentrating solar thermal storage materials. <i>Frontiers of Materials Science</i> , 2015 , 9, 317-331	2.5	17
238	A high-performance copper-based brake pad for high-speed railway trains and its surface substance evolution and wear mechanism at high temperature. <i>Wear</i> , 2020 , 444-445, 203182	3.5	17
237	A strategy combining machine learning and multiscale calculation to predict tensile strength for pearlitic steel wires with industrial data. <i>Scripta Materialia</i> , 2020 , 186, 272-277	5.6	16
236	AlN powder synthesis by sodium fluoride-assisted carbothermal combustion. <i>Ceramics International</i> , 2014 , 40, 14447-14452	5.1	16
235	Preparation of TiN nanopowder by carbothermal reduction of a combustion synthesized precursor. <i>Materials Characterization</i> , 2013 , 81, 76-84	3.9	16
234	Preparation of intragranular-oxide-strengthened ultrafine-grained tungsten via low-temperature pressureless sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 774, 138878	5.3	16
233	Confining Pyrrhotite Fe S in Carbon Nanotubes Covalently Bonded onto 3D Few-Layer Graphene Boosts Potassium-Ion Storage and Full-Cell Applications. <i>Small</i> , 2021 , 17, e2006719	11	16
232	WC-Co-Cr 3 C 2 -VC nanocomposite powders fabricated by solution combustion synthesis and carbothermal reduction. <i>Ceramics International</i> , 2017 , 43, 9568-9572	5.1	15
231	Magnetic properties of iron-based soft magnetic composites prepared by utilizing polyimide insulating layer. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 486, 165287	2.8	15
230	Superior optical properties of Fe ₃ O ₄ nanoparticles prepared by solution combustion synthesis. <i>New Journal of Chemistry</i> , 2015 , 39, 1196-1201	3.6	15
229	Characteristics of novel Ti-10Mo-xCu alloy by powder metallurgy for potential biomedical implant applications. <i>Bioactive Materials</i> , 2020 , 5, 659-666	16.7	15

228	Magnetic iron nanoparticles prepared by solution combustion synthesis and hydrogen reduction. <i>Chemical Physics Letters</i> , 2016 , 657, 33-38	2.5	15
227	Effects of annealing on high velocity compaction behavior and mechanical properties of iron-base PM alloy. <i>Powder Technology</i> , 2016 , 288, 435-440	5.2	15
226	The Mechanical Properties and In Vitro Biocompatibility of PM-Fabricated Ti-28Nb-35.4Zr Alloy for Orthopedic Implant Applications. <i>Materials</i> , 2018 , 11,	3.5	15
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