Xuanhui Qu

List of Publications by Year in Descending Order

371 papers	7,730 citations	47 h-index	69 g-index
383 ext. papers	9,561 ext. citations	5.5 avg, IF	6.38 L-index

#	Paper	IF	Citations
371	Low-Temperature and High-Energy-Density Li-Based Liquid Metal Batteries Based on LiCl□KCl Molten Salt Electrolyte. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 1871-1879	8.3	2
370	Research progress on selective laser melting processing for nickel-based superalloy. *International Journal of Minerals, Metallurgy and Materials*, **2022**, 29, 369-388	3.1	1
369	Effect and Evolution of Oxide Film in the HDH-Ti Powder Surface on Densification Behavior During Sintering. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2022**, 53, 1164	2.3	0
368	CALPHAD design and high-throughput search of novel Ni-based superalloys that are reinforced by □+□. *Materials Today Communications*, **2022**, 30, 103164	2.5	0
367	A first-principles study on D022 precipitation phases of Ni-based superalloys with loading stress and high temperature. *Solid State Communications*, **2022**, 342, 114632	1.6	0
366	Effect of grain size on deformation behavior of pure rhenium. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 829, 142170	5.3	0
365	Large-scale synthesis of ultrafine FeC nanoparticles embedded in mesoporous carbon nanosheets for high-rate lithium storage.. *RSC Advances*, **2022**, 12, 6508-6514	3.7	0
364	Mesoporous single crystals with Fe-rich skin for ultra-low overpotential in oxygen evolution catalysis.. *Advanced Materials*, **2022**, e2200088	24	5
363	Transparent AlON ceramics by nitriding combustion synthesis precursors and pressureless sintering method. *Ceramics International*, **2022**,	5.1	1
362	Research on maximizing the diamond content of diamond/SiC composite. *Journal of the European Ceramic Society*, **2022**, 42, 3127-3134	6	0
361	Evolution of Microstructure and Elements Distribution of Powder Metallurgy Borated Stainless Steel during Hot Isostatic Pressing. *Metals*, **2022**, 12, 19	2.3	0
360	Prediction of Oxygen Evolution Activity for NiCoFe Oxide Catalysts via Machine Learning.. *ACS Omega*, **2022**, 7, 14160-14164	3.9	1
359	Laser powder bed fusion of a Nb-based refractory alloy: Microstructure and tensile properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 143153	5.3	0
358	A comprehensive study of tantalum powder preparation for additive manufacturing. *Applied Surface Science*, **2022**, 593, 153357	6.7	1
357	Self-healing action of Bi in high-performance Sb□Bi□Sn positive electrodes for liquid metal batteries. *Journal of Power Sources*, **2022**, 538, 231584	8.9	
356	A novel through-length gradient structure assisted strength-ductility synergy in hot-rolled tungsten. *Materials and Design*, **2022**, 110775	8.1	1
355	Single-Atom Co Doped in Ultrathin WO Arrays for the Enhanced Hydrogen Evolution Reaction in a Wide pH Range. *ACS Applied Materials & Interfaces*, **2021**, 13, 53915-53924	9.5	3

354	Study on the Hot Deformation Characterization of Borated Stainless Steel by Hot Isostatic Pressing. *Materials*, **2021**, 14,	3.5	2
353	Confining Pyrrhotite Fe S in Carbon Nanotubes Covalently Bonded onto 3D Few-Layer Graphene Boosts Potassium-Ion Storage and Full-Cell Applications. *Small*, **2021**, 17, e2006719	11	16
352	Preparation of W-Plated Diamond and Improvement of Thermal Conductivity of Diamond-WC-Cu Composite. *Metals*, **2021**, 11, 437	2.3	1
351	Reaction kinetics in rechargeable zinc-ion batteries. *Journal of Power Sources*, **2021**, 492, 229655	8.9	11
350	Fabrication of TiAl alloys turbocharger turbine wheel for engines by metal injection molding. *Powder Technology*, **2021**, 384, 132-140	5.2	4
349	Microstructural evolution and magnetic properties of pressureless-sintered nanosized iron prepared by a facile combustion-based route. *Advanced Powder Technology*, **2021**, 32, 1481-1487	4.6	0
348	Properties of intragranular-oxide-strengthened Fe alloys fabricated by a versatile facile and scalable route. *Powder Technology*, **2021**, 384, 9-16	5.2	2
347	Orientation relationship of texture development in hot-rolled W during annealing. *International Journal of Refractory Metals and Hard Materials*, **2021**, 97, 105527	4.1	1
346	Demystifying the Formation of Colloidal Perovskite Nanocrystals via Controlling Stepwise Synthesis. *Journal of Physical Chemistry C*, **2021**, 125, 14204-14211	3.8	5
345	Study on influencing factors and mechanism of high-quality tungsten carbide nanopowders synthesized via carbothermal reduction. *Journal of Alloys and Compounds*, **2021**, 867, 158959	5.7	4
344	Recent advances in electrospun electrode materials for sodium-ion batteries. *Journal of Energy Chemistry*, **2021**, 54, 225-241	12	34
343	Design and performance evaluation of additively manufactured composite lattice structures of commercially pure Ti (CP-Ti). *Bioactive Materials*, **2021**, 6, 1215-1222	16.7	3
342	Tuning vacancy and size of metallic VCx quantum dots for capacitive potassium-ion batteries. *Chemical Engineering Journal*, **2021**, 404, 126315	14.7	2
341	High-temperature oxidation behaviour of TiAl alloys with Co addition. *Journal of Materials Science*, **2021**, 56, 815-827	4.3	12
340	One-pot solution combustion synthesis of crystalline and amorphous molybdenum trioxide as anode for lithium-ion battery. *Journal of the American Ceramic Society*, **2021**, 104, 1102-1109	3.8	13
339	Current state-of-the-art characterization techniques for probing the layered oxide cathode materials of sodium-ion batteries. *Energy Storage Materials*, **2021**, 35, 400-430	19.4	19
338	UNS S32707 hyper-duplex stainless steel processed by powder injection molding and supersolidus liquid-phase sintering in nitrogen sintering atmosphere. *Vacuum*, **2021**, 184, 109910	3.7	2
337	Synchronous nesting of hollow FeP nanospheres into a three-dimensional porous carbon scaffold via a salt-template method for performance-enhanced potassium-ion storage. *Sustainable Energy and Fuels*, **2021**, 5, 844-854	5.8	5

336	Oxidation behavior of low-cost CP-Ti powders for additive manufacturing via fluidization. *Corrosion Science*, **2021**, 178, 109080	6.8	13
335	High-performance aqueous Zn–MnO2 batteries enabled by the coupling engineering of K+ pre-intercalation and oxygen defects. *Journal of Materials Chemistry A*, **2021**, 9, 15637-15647	13	7
334	Feasibility Research of SS304 Serving as the Positive Current Collector of Li||Sb–Sn Liquid Metal Batteries. *Journal of Physical Chemistry C*, **2021**, 125, 237-245	3.8	6
333	Effects of Sintering Temperature on Densification, Microstructure and Mechanical Properties of Al-Based Alloy by High-Velocity Compaction. *Metals*, **2021**, 11, 218	2.3	4
332	Sandwich-Like Heterostructures of MoS /Graphene with Enlarged Interlayer Spacing and Enhanced Hydrophilicity as High-Performance Cathodes for Aqueous Zinc-Ion Batteries. *Advanced Materials*, **2021**, 33, e2007480	24	89
331	Effect of Jet Milling on HDH CP-Ti Powders: Microstructure and Properties. *Jom*, **2021**, 73, 3102-3110	2.1	0
330	Molecular Engineering on MoS Enables Large Interlayers and Unlocked Basal Planes for High-Performance Aqueous Zn-Ion Storage. *Angewandte Chemie - International Edition*, **2021**, 60, 20286-20293	16.4	26
329	Stable Positive Current Collectors for Li||Sb–Sn Liquid Metal Batteries. *ACS Applied Energy Materials*, **2021**, 4, 9013-9021	6.1	2
328	Effect of Heat Treatment Temperature on Microstructure and Properties of PM Borated Stainless Steel Prepared by Hot Isostatic Pressing. *Materials*, **2021**, 14,	3.5	2
327	Synthesis of monodisperse and high-purity α-Si3N4 powder by carbothermal reduction and nitridation. *Advanced Powder Technology*, **2021**, 32, 3101-3106	4.6	0
326	Molecular Engineering on MoS2 Enables Large Interlayers and Unlocked Basal Planes for High-Performance Aqueous Zn-Ion Storage. *Angewandte Chemie*, **2021**, 133, 20448-20455	3.6	14
325	Rapid synthesis of AlON powders by nitriding combustion synthesis precursor. *Ceramics International*, **2021**, 47, 23590-23596	5.1	0
324	Tracking the evolution of microstructure and phases of WCoB-Co cermets during sintering. *International Journal of Refractory Metals and Hard Materials*, **2021**, 98, 105550	4.1	4
323	Towards pressureless sintering of nanocrystalline tungsten. *Acta Materialia*, **2021**, 117344	8.4	5
322	Impurity-induced microstructural uniformity by narrowing stored energy difference between {111} and {100} grains in rolled W. *International Journal of Refractory Metals and Hard Materials*, **2021**, 99, 105593	4.1	
321	Enhanced hydrogen-storage properties of MgH2 by Fe–Ni catalyst modified three-dimensional graphene. *International Journal of Hydrogen Energy*, **2021**, 46, 34369-34380	6.7	6
320	Micro-mechanism and mechanical properties of solid-powder hot isostatic pressing diffusion-bonded Ti2AlNb alloy. *Advanced Powder Technology*, **2021**, 32, 3610-3623	4.6	1
319	Enhanced anti-poisoning performance against carbon monoxide of LaNi4.7Al0.3 alloy encapsulated in polymethyl methacrylate. *Materials Letters*, **2021**, 302, 130409	3.3	0

318	Advanced characterizations and measurements for sodium-ion batteries with NASICON-type cathode materials. *EScience*, **2021**,		19
317	A novel experimental method for in situ strain measurement during selective laser melting. *Virtual and Physical Prototyping*, **2020**, 15, 583-595	10.1	3
316	Investigation on Sub-Solvus Recrystallization Mechanisms in an Advanced □Nickel-Based Superalloy GH4151. *Materials*, **2020**, 13,	3.5	4
315	Characteristics of novel Ti-10Mo-xCu alloy by powder metallurgy for potential biomedical implant applications. *Bioactive Materials*, **2020**, 5, 659-666	16.7	15
314	Achieving Fast and Stable Lithium/Potassium Storage by In Situ Decorating FeSe2 Nanodots into Three-Dimensional Hierarchical Porous Carbon Networks. *Journal of Physical Chemistry C*, **2020**, 124, 12185-12194	3.8	10
313	Influence of heat treatment on the microstructural evolution and mechanical properties of W6Mo5Cr4V2Co5Nb (825□K) high speed steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 787, 139480	5.3	13
312	A strategy combining machine learning and multiscale calculation to predict tensile strength for pearlitic steel wires with industrial data. *Scripta Materialia*, **2020**, 186, 272-277	5.6	16
311	Influence of impurities on hot-rolled molybdenum for high temperature applications. *International Journal of Refractory Metals and Hard Materials*, **2020**, 92, 105294	4.1	3
310	Marcasite-FeS2@carbon nanodots anchored on 3D cell-like graphenic matrix for high-rate and ultrastable potassium ion storage. *Journal of Power Sources*, **2020**, 469, 228429	8.9	21
309	Microstructure evolution and densification behaviour of powder metallurgy Al□Cu□Mg□Si alloy. *Powder Metallurgy*, **2020**, 63, 54-63	1.9	3
308	Phase formation and evolution during transient liquid phase sintering of MIM418 superalloy with master alloy addition. *Journal of Alloys and Compounds*, **2020**, 829, 154583	5.7	0
307	Substance evolution and wear mechanism on friction contact area of brake disc for high-speed railway trains at high temperature. *Engineering Failure Analysis*, **2020**, 111, 104472	3.2	9
306	Investigation of Inclusion Agglomeration and Flotation During Levitation Melting of Ni-Based Superalloy in a Cold Crucible. *Jom*, **2020**, 72, 3247-3255	2.1	4
305	Effects of Mo content on corrosion and tribocorrosion behaviours of Ti-Mo orthopaedic alloys fabricated by powder metallurgy. *Corrosion Science*, **2020**, 168, 108557	6.8	36
304	Improved adhesion of cross-linked binder and SiO2-coating enhances structural and cyclic stability of silicon electrodes for lithium-ion batteries. *Journal of Power Sources*, **2020**, 454, 227907	8.9	30
303	Adjusting function of MoS2 on the high-speed emergency braking properties of copper-based brake pad and the analysis of relevant tribo-film of eddy structure. *Composites Part B: Engineering*, **2020**, 185, 107779	10	8
302	Effect of Preannealing on Microstructural Evolution and Tensile Properties of a Novel Nickel-Based Superalloy. *Advanced Engineering Materials*, **2020**, 22, 2000134	3.5	5
301	Selective laser melting of CP-Ti to overcome the low cost and high performance trade-off. *Additive Manufacturing*, **2020**, 34, 101198	6.1	5

300	Effect of chemical composition on the microstructure and mechanical properties of MoCoB based cermets. *Ceramics International*, **2020**, 46, 18046-18055	5.1	4
299	Investigation on the formation mechanism of non-metallic inclusions in high-aluminum and titanium-alloyed Ni-based superalloy. *Vacuum*, **2020**, 177, 109409	3.7	6
298	Improved Braking Performance of Cu-Based Brake Pads by Utilizing Cu-Coated SiO2 Powder. *Tribology Transactions*, **2020**, 63, 829-840	1.8	3
297	Microstructure, wear resistance, and corrosion performance of Ti35Zr28Nb alloy fabricated by powder metallurgy for orthopedic applications. *Journal of Materials Science and Technology*, **2020**, 41, 191-198	9.1	28
296	Development of an explicit formula for predicting the drag coefficients of equiaxed dendrites. *Computational Materials Science*, **2020**, 172, 109319	3.2	0
295	Enhanced magnetic properties of iron-based soft magnetic composites with phosphate-polyimide insulating layer. *Journal of Alloys and Compounds*, **2020**, 813, 152205	5.7	19
294	Pressureless two-step sintering of ultrafine-grained tungsten. *Acta Materialia*, **2020**, 186, 116-123	8.4	29
293	Collaborative Design of Hollow Nanocubes, In Situ Cross-Linked Binder, and Amorphous Void@SiO @C as a Three-Pronged Strategy for Ultrastable Lithium Storage. *Small*, **2020**, 16, e1905736	11	26
292	Synthesis of tungsten carbide nanopowders by direct carbonization of tungsten oxide and carbon: Effects of tungsten oxide source on phase structure and morphology evolution. *Ceramics International*, **2020**, 46, 8787-8795	5.1	8
291	Preparation of intragranular-oxide-strengthened ultrafine-grained tungsten via low-temperature pressureless sintering. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 774, 138878	5.3	16
290	Solution combustion synthesis of crystalline V2O3 and amorphous V2O3/C as anode for lithium-ion battery. *Journal of the American Ceramic Society*, **2020**, 103, 2643-2652	3.8	20
289	A high-performance copper-based brake pad for high-speed railway trains and its surface substance evolution and wear mechanism at high temperature. *Wear*, **2020**, 444-445, 203182	3.5	17
288	Synthesis, microstructure evolution, and phase transformation of novel MoCoB□o cermets. *Ceramics International*, **2020**, 46, 7541-7549	5.1	5
287	Microstructure and tribological properties of titanium matrix composites reinforced with in situ synthesized TiC particles. *Materials Characterization*, **2020**, 170, 110633	3.9	13
286	The effect of Cu content on corrosion, wear and tribocorrosion resistance of Ti-Mo-Cu alloy for load-bearing bone implants. *Corrosion Science*, **2020**, 177, 109007	6.8	10
285	Effect of interaction of refractories with Ni-based superalloy on inclusions during vacuum induction melting. *International Journal of Minerals, Metallurgy and Materials*, **2020**, 27, 1551-1559	3.1	3
284	Synergistic interactions between wear and corrosion of Ti-16Mo orthopedic alloy. *Journal of Materials Research and Technology*, **2020**, 9, 9996-10003	5.5	13
283	Sintering densification, microstructure and mechanical properties of Sn-doped high Nb-containing TiAl alloys fabricated by pressureless sintering. *Intermetallics*, **2020**, 125, 106891	3.5	9

282	Hydrothermal synthesis of new CuVO2 delafossite hexagonal nanoplates. *Ceramics International*, **2020**, 46, 28219-28226	5.1	1
281	Effect of carbon fiber on the braking performance of copper-based brake pad under continuous high-energy braking conditions. *Wear*, **2020**, 458-459, 203408	3.5	9
280	Hot Deformation Characteristics and Dynamic Recrystallization Mechanisms of a Novel Nickel-Based Superalloy. *Advanced Engineering Materials*, **2020**, 22, 2000622	3.5	6
279	3C-SiC axis nanowires generated during the pyrolysis of diamond/SiC composite green body. *Diamond and Related Materials*, **2020**, 110, 108113	3.5	1
278	Effect of boron on the microstructure and properties of graphite flakes/copper composites fabricated by vacuum hot pressing. *Journal of Alloys and Compounds*, **2020**, 815, 152425	5.7	7
277	Tribological and mechanical properties of copper matrix composites reinforced with carbon nanotube and alumina nanoparticles. *Materials Research Express*, **2019**, 6, 116524	1.7	10
276	Hollow Multihole Carbon Bowls: A Stress-Release Structure Design for High-Stability and High-Volumetric-Capacity Potassium-Ion Batteries. *ACS Nano*, **2019**, 13, 11363-11371	16.7	91
275	High-throughput fabrication of 3D N-doped graphenic framework coupled with Fe3C@porous graphite carbon for ultrastable potassium ion storage. *Energy Storage Materials*, **2019**, 22, 185-193	19.4	67
274	Porous Ti-10Mo alloy fabricated by powder metallurgy for promoting bone regeneration. *Science China Materials*, **2019**, 62, 1053-1064	7.1	21
273	Microstructure and properties of CuCr alloy manufactured by selective laser melting. *Journal of Alloys and Compounds*, **2019**, 786, 189-197	5.7	17
272	Chemically bubbled hollow FexO 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
271	Effects of morphological characteristics of graphite fillers on the thermal conductivity of the graphite/copper composites fabricated by vacuum hot pressing sintering. *Vacuum*, **2019**, 167, 199-206	3.7	14
270	Optimization of Von Mises Stress Distribution in Mesoporous □Fe2O3/C Hollow Bowls Synergistically Boosts Gravimetric/Volumetric Capacity and High-Rate Stability in Alkali-Ion Batteries. *Advanced Functional Materials*, **2019**, 29, 1902822	15.6	35
269	Synthesis and microstructure evolution of WCoB based cermets during spark plasma sintering. *Ceramics International*, **2019**, 45, 17536-17544	5.1	14
268	The multi-yolk/shell structure of FeP@foam-like graphenic scaffolds: strong P□ bonds and electrolyte- and binder-optimization boost potassium storage. *Journal of Materials Chemistry A*, **2019**, 7, 15673-15682	13	48
267	High-throughput thermodynamic calculations of phase equilibria in solidified 6016 Al-alloys. *Computational Materials Science*, **2019**, 167, 19-24	3.2	10
266	Effect of graphite type on the contact plateaus and friction properties of copper-based friction material for high-speed railway train. *Wear*, **2019**, 432-433, 202927	3.5	12
265	Magnetic properties of iron-based soft magnetic composites prepared by utilizing polyimide insulating layer. *Journal of Magnetism and Magnetic Materials*, **2019**, 486, 165287	2.8	15

264	Effects of Ni-Coated Graphite Flake on Braking Behavior of Cu-Based Brake Pads Applied in High-Speed Railway Trains. *Journal of Tribology*, **2019**, 141,	1.8	3
263	Improvement in Mechanical and Thermal Properties of Graphite Flake/Cu Composites by Introducing TiC Coating on Graphite Flake Surface. *Metals*, **2019**, 9, 519	2.3	9
262	Modeling of interfacial design and thermal conductivity in graphite flake/Cu composites for thermal management applications. *Applied Thermal Engineering*, **2019**, 156, 351-358	5.8	9
261	First-Principles Study on the Mechanical Properties and Electronic Structure of V Doped WCoB and W□CoB□Ternary Borides. *Materials*, **2019**, 12,	3.5	11
260	Analysis of Powder Binder Separation through Multiscale Computed Tomography. *Metals*, **2019**, 9, 329	2.3	
259	Synthesis of highly sinterable AlN nanopowders through sol-gel route by reduction-nitridation in ammonia. *Ceramics International*, **2019**, 45, 14568-14575	5.1	10
258	Improvement of ZrC/Zr Coating on the Interface Combination and Physical Properties of Diamond-Copper Composites Fabricated by Spark Plasma Sintering. *Materials*, **2019**, 12,	3.5	7
257	Borax promotes the facile formation of hollow structure in Cu single crystalline nanoparticles for multifunctional electrocatalysis. *Inorganic Chemistry Frontiers*, **2019**, 6, 893-902	6.8	11
256	Low-cost Ti powders for additive manufacturing treated by fluidized bed. *Powder Technology*, **2019**, 350, 117-122	5.2	23
255	Thixotropic properties of multi-functional binder and compaction behaviour of the low alloyed binder-treated powder. *Powder Metallurgy*, **2019**, 62, 22-29	1.9	1
254	Effect of Matrix Alloying of Fe on Friction and Wear Properties of Cu-Based Brake Pad Materials. *Tribology Transactions*, **2019**, 62, 701-711	1.8	5
253	A first-principles-calculation exploration of ternary borides as potential alternatives to WC-Co. *Journal of Alloys and Compounds*, **2019**, 791, 761-772	5.7	7
252	A novel approach to predict green density by high-velocity compaction based on the materials informatics method. *International Journal of Minerals, Metallurgy and Materials*, **2019**, 26, 194-201	3.1	6
251	Phase evolution and densification behavior of MIM418 superalloy utilizing master alloy approach. *Journal of Alloys and Compounds*, **2019**, 771, 33-41	5.7	3
250	Effect of alloying element Zr on the microstructure and properties of graphite flake/Cu composites fabricated by vacuum hot pressing. *Journal of Alloys and Compounds*, **2019**, 770, 267-275	5.7	23
249	The Synergistic Effect of Cr and CrFe Particles on the Braking Behavior of Cu-Based Powder Metallurgy Brake Pads. *Tribology Transactions*, **2019**, 62, 1072-1085	1.8	7
248	Microstructure and mechanical properties of Cr-rich Co-Cr-Fe-Ni high entropy alloys designed by valence electron concentration. *Materials Chemistry and Physics*, **2019**, 238, 121897	4.4	18
247	Fabrication and properties of newly developed Ti35Zr28Nb scaffolds fabricated by powder metallurgy for bone-tissue engineering. *Journal of Materials Research and Technology*, **2019**, 8, 3696-3704	5.5	21

246	Novel porous Ti35Zr28Nb scaffolds fabricated by powder metallurgy with excellent osteointegration ability for bone-tissue engineering applications. *Materials Science and Engineering C*, **2019**, 105, 110015	8.3	24
245	Magnetic properties of evenly mixed Fe-Y2O3 nanocomposites synthesized by a facile wet-chemical based route. *Journal of Magnetism and Magnetic Materials*, **2019**, 491, 165576	2.8	3
244	A synergetic strategy for an advanced electrode with Fe3O4 embedded in a 3D N-doped porous graphene framework and a strong adhesive binder for lithium/potassium ion batteries with an ultralong cycle lifespan. *Journal of Materials Chemistry A*, **2019**, 7, 19430-19441	13	36
243	Interface and properties of copper matrix composites reinforced with TiC coated spherical graphite. *Materials Research Express*, **2019**, 6, 116307	1.7	1
242	ODS alloy with ferritic-austenitic duplex matrix and NiAl precipitation prepared by master alloy approach. *Journal of Alloys and Compounds*, **2019**, 811, 152066	5.7	1
241	First-principle calculations of mechanical properties and electronic structure of WCoB and Cr doped WCoB under high pressure. *Materials Research Express*, **2019**, 6, 116320	1.7	3
240	Tuning Metallic CoSe Quantum Dots/Carbon Hollow Polyhedrons with Tertiary Hierarchical Structure for High-Performance Potassium Ion Batteries. *Nano-Micro Letters*, **2019**, 11, 96	19.5	33
239	Superplastic Deformation and Dynamic Recrystallization of a Novel Disc Superalloy GH4151. *Materials*, **2019**, 12,	3.5	8
238	Fade behaviour of copper-based brake pad during cyclic emergency braking at high speed and overload condition. *Wear*, **2019**, 428-429, 10-23	3.5	19
237	The Microstructure, Mechanical Properties, and Corrosion Resistance of UNS S32707 Hyper-Duplex Stainless Steel Processed by Selective Laser Melting. *Metals*, **2019**, 9, 1012	2.3	7
236	Effects of Compaction Velocity on the Sinterability of Al-Fe-Cr-Ti PM Alloy. *Materials*, **2019**, 12,	3.5	2
235	Novel Ferritic Stainless Steel with Advanced Mechanical Properties and Significant Magnetic Responses Processed by Selective Laser Melting. *Materials Transactions*, **2019**, 60, 1096-1102	1.3	5
234	A novel method to synthesize vanadium nitride nanopowders by ammonia reduction from combustion precursors. *Journal of Alloys and Compounds*, **2019**, 772, 808-813	5.7	12
233	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
232	Thermal expansion coefficient of Diamond/SiC composites prepared by silicon vapor infiltration in vacuum. *Vacuum*, **2019**, 159, 507-515	3.7	10
231	Nanomesh: Unprecedented Synthesis of Holey 2D Layered Double Hydroxide Nanomesh for Enhanced Oxygen Evolution (Adv. Energy Mater. 1/2019). *Advanced Energy Materials*, **2019**, 9, 1970003	21.8	3
230	Fabrication, mechanical properties and electrical conductivity of Al2O3 reinforced Cu/CNTs composites. *Journal of Alloys and Compounds*, **2019**, 782, 1015-1023	5.7	59
229	Selective electron beam melting of NiTi: Microstructure, phase transformation and mechanical properties. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 744, 290-298	5.3	60

228	Unprecedented Synthesis of Holey 2D Layered Double Hydroxide Nanomesh for Enhanced Oxygen Evolution. *Advanced Energy Materials*, **2019**, 9, 1803060	21.8	65
227	A self-standing silver/crosslinked-poly(vinyl alcohol) network with microfibers, nanowires and nanoparticles and its linear aggregation. *Journal of Colloid and Interface Science*, **2019**, 535, 524-532	9.3	6
226	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
225	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
224	Fabrication of commercial pure Ti by selective laser melting using hydride-dehydride titanium powders treated by ball milling. *Journal of Materials Science and Technology*, **2019**, 35, 322-327	9.1	35
223	Facile synthesis of amorphous Cr2O3/N-doped carbon nanosheets and its excellent lithium storage property. *Journal of the American Ceramic Society*, **2018**, 101, 3234-3243	3.8	7
222	Effects of Cobalt on the structure and mechanical behavior of non-equal molar CoxFe50−xCr25Ni25 high entropy alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 723, 221-228	5.3	23
221	Ultrafast synthesis of amorphous VOx embedded into 3D strutted amorphous carbon frameworks: short-range order in dual-amorphous composites boosts lithium storage. *Journal of Materials Chemistry A*, **2018**, 6, 7053-7061	13	9
220	High thermal conductivity of diamond/copper composites produced with Cu–Zr–C double-layer coated diamond particles. *Journal of Materials Science*, **2018**, 53, 8978-8988	4.3	18
219	Zero-strain K0.6Mn1F2.7 hollow nanocubes for ultrastable potassium ion storage. *Energy and Environmental Science*, **2018**, 11, 3033-3042	35.4	67
218	Thermodynamic description of phase equilibria in the Cr–Mo–V–N quaternary system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2018**, 62, 201-206	1.9	1
217	The Mechanical Properties and In Vitro Biocompatibility of PM-Fabricated Ti-28Nb-35.4Zr Alloy for Orthopedic Implant Applications. *Materials*, **2018**, 11,	3.5	15
216	Metal Injection Moulding of High Nb-Containing TiAl Alloy and Its Oxidation Behaviour at 900 °C. *Metals*, **2018**, 8, 163	2.3	4
215	Effects of Porosity on Mechanical Properties and Corrosion Resistances of PM-Fabricated Porous Ti-10Mo Alloy. *Metals*, **2018**, 8, 188	2.3	29
214	Transformation Induced Plasticity Effects of a Non-Equal Molar Co-Cr-Fe-Ni High Entropy Alloy System. *Metals*, **2018**, 8, 369	2.3	21
213	Optimized thermal conductivity of diamond/Cu composite prepared with tungsten-copper-coated diamond particles by vacuum sintering technique. *Vacuum*, **2018**, 153, 74-81	3.7	35
212	Bamboo-Like Hollow Tubes with MoS2/N-Doped-C Interfaces Boost Potassium-Ion Storage. *Advanced Functional Materials*, **2018**, 28, 1803409	15.6	188
211	Porous structure uniformity investigation of tungsten matrix prepared by jet milled and annealed tungsten powder. *Powder Technology*, **2018**, 339, 192-198	5.2	8

210	Solution combustion synthesis of nanostructured iron oxides with controllable morphology, composition and electrochemical performance. *Ceramics International*, **2018**, 44, 4237-4247	5.1	21
209	Tribological and corrosion properties of PM 316L matrix composites reinforced by in situ polymer-derived ceramics. *Vacuum*, **2018**, 148, 319-326	3.7	8
208	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
207	Enhanced hydrogen storage properties of 1.1MgH-2LiNH-0.1LiBH system with LaNi-based alloy hydrides addition.. *RSC Advances*, **2018**, 8, 40647-40654	3.7	3
206	Preparation and thermal conductivities of diamond/SiC composites. *Applied Physics A: Materials Science and Processing*, **2018**, 124, 1	2.6	9
205	Effect of Mn doping on mechanical properties and electronic structure of WCoB ternary boride by first-principles calculations. *Chinese Physics B*, **2018**, 27, 107101	1.2	6
204	Study of a Binder System for Ti-MIM: A Potential Low Temperature Backbone Polymer. *Key Engineering Materials*, **2018**, 770, 206-213	0.4	1
203	Effects of different forms of Fe powder additives on the simulated braking performance of Cu-based friction materials for high-speed railway trains. *Wear*, **2018**, 414-415, 317-326	3.5	24
202	Multirole organic-induced scalable synthesis of a mesoporous MoS2-monolayer/carbon composite for high-performance lithium and potassium storage. *Journal of Materials Chemistry A*, **2018**, 6, 11147-11153	13	67
201	Preparation of TiAl Alloy Powder by Reactive Synthesis in Molten KCl-LiCl Salt. *Jom*, **2018**, 70, 2230-2236	2.1	5
200	Preparation of Mo nanopowders through hydrogen reduction of a combustion synthesized foam-like MoO2 precursor. *International Journal of Refractory Metals and Hard Materials*, **2018**, 76, 90-98	4.1	9
199	Effect of Cr doping on the mechanical properties and electronic structure of WCoB ternary boride by first-principles calculations. *Modern Physics Letters B*, **2018**, 32, 1850240	1.6	6
198	Structural characterisation and mechanical behaviour of porous Ti-7.5Mo alloy fabricated by selective laser sintering for biomedical applications. *Materials Technology*, **2017**, 32, 219-224	2.1	5
197	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
196	WC-Co-Cr 3 C 2 -VC nanocomposite powders fabricated by solution combustion synthesis and carbothermal reduction. *Ceramics International*, **2017**, 43, 9568-9572	5.1	15
195	Effect of deposition time on microstructures and growth behavior of ZrC coatings prepared by low pressure chemical vapor deposition with the Br2-Zr-C3H6-H2-Ar System. *Journal Wuhan University of Technology, Materials Science Edition*, **2017**, 32, 284-288	1	2
194	Particle size distribution control and related properties improvements of tungsten powders by fluidized bed jet milling. *Advanced Powder Technology*, **2017**, 28, 1603-1610	4.6	19
193	Influence of Ti content on the microstructure and properties of graphite flake/Cu-Ti composites fabricated by vacuum hot pressing. *Vacuum*, **2017**, 141, 265-271	3.7	37

192	Properties and microstructure of nickel-coated graphite flakes/copper composites fabricated by spark plasma sintering. *Carbon*, **2017**, 121, 25-34	10.4	73
191	Effect of glycine on one-step solution combustion synthesis of magnetite nanoparticles. *Journal of Alloys and Compounds*, **2017**, 719, 288-295	5.7	33
190	Facile synthesis of mesoporous hematite/carbon nanosheet for superior photodegradation. *Journal of Physics and Chemistry of Solids*, **2017**, 107, 42-49	3.9	12
189	Improved dehydrogenation performance of NaAlH 4 using NiFe 2 O 4 nanoparticles. *Journal of Alloys and Compounds*, **2017**, 709, 850-856	5.7	19
188	Facile solution combustion synthesis of MoO2 nanoparticles as efficient photocatalysts. *CrystEngComm*, **2017**, 19, 6516-6526	3.3	17
187	Effect of Y2O3 Coating on the Interface and Mechanical Properties of SiC Fiber Reinforced GH4738 Composites. *Materials Science Forum*, **2017**, 898, 604-608	0.4	2
186	Effects of size reduction on deformation, microstructure, and surface roughness of micro components for micro metal injection molding. *International Journal of Minerals, Metallurgy and Materials*, **2017**, 24, 1021-1026	3.1	3
185	Fabrication of tungsten nanopowder by combustion-based method. *International Journal of Refractory Metals and Hard Materials*, **2017**, 68, 145-150	4.1	15
184	Catalytic effect of MnFe2O4 on dehydrogenation kinetics of NaAlH4-MgH2. *RSC Advances*, **2017**, 7, 34522-34529	3.7	6
183	Microstructure and tensile properties of in situ polymer-derived particles reinforced steel matrix composites produced by powder metallurgy method. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 705, 231-238	5.3	11
182	Simulation of jet-flow solid fraction during spray forming. *International Journal of Minerals, Metallurgy and Materials*, **2017**, 24, 657-669	3.1	1
181	Wetting mechanism of AgCuTi on heterogeneous surface of Diamond/Cu composites. *Surface and Coatings Technology*, **2017**, 325, 490-495	4.4	6
180	Facile synthesis of sheet-like Fe/C nanocomposites by a combustion-based method. *Journal of Alloys and Compounds*, **2017**, 695, 1870-1877	5.7	10
179	Microstructure and tensile properties optimization of MIM418 superalloy by heat treatment. *Journal of Materials Processing Technology*, **2016**, 227, 71-79	5.3	13
178	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
177	Net-Shape Forming and Mechanical Properties of MIM418 Turbine Wheel. *Journal of Materials Engineering and Performance*, **2016**, 25, 3656-3661	1.6	4
176	Magnetic iron nanoparticles prepared by solution combustion synthesis and hydrogen reduction. *Chemical Physics Letters*, **2016**, 657, 33-38	2.5	15
175	Synthesis and characterization of Sn-doped hematite as visible light photocatalyst. *Materials Research Bulletin*, **2016**, 77, 41-47	5.1	32

174	Effect of urea on the synthesis of Al-doped ZnO nanoparticle and its adsorptive properties for organic pollutants. *Materials Research Bulletin*, **2016**, 75, 78-82	5.1	12
173	Effects of annealing on high velocity compaction behavior and mechanical properties of iron-base PM alloy. *Powder Technology*, **2016**, 288, 435-440	5.2	15
172	Fabrication and characterization of porous Ti□Mo alloy for biomedical applications. *Journal of Porous Materials*, **2016**, 23, 783-790	2.4	5
171	Effects of Sintering Process on Microstructure and Properties of Flake Graphite-Diamond/Copper Composites. *Materials and Manufacturing Processes*, **2016**, 31, 1377-1383	4.1	11
170	Facile preparation of network-like porous hematite (□Fe 2 O 3) nanosheets via a novel combustion-based route. *Ceramics International*, **2016**, 42, 10380-10388	5.1	21
169	Hollow Porous VO/C Nanoscrolls as High-Performance Anodes for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 25954-25961	9.5	24
168	Microstructure and graphitization behavior of diamond/SiC composites fabricated by vacuum vapor reactive infiltration. *Rare Metals*, **2015**, 34, 400-406	5.5	6
167	Combustion synthesis and excellent photocatalytic degradation properties of W18O49. *CrystEngComm*, **2015**, 17, 5889-5894	3.3	26
166	Optimization and evaluation of metal injection molding by using X-ray tomography. *Materials Characterization*, **2015**, 104, 107-115	3.9	9
165	Selective laser sintered porous Ti(4410)Mo alloys for biomedical applications: Structural characteristics, mechanical properties and corrosion behaviour. *Corrosion Science*, **2015**, 95, 117-124	6.8	47
164	Effect of glycine on the synthesis of CrN nanopowder using nitridation combustion synthesis precursors. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	6
163	Dehydrogenation mechanism of ball-milled MgH2 doped with ferrites (CoFe2O4, ZnFe2O4, MnFe2O4 and Mn0.5Zn0.5Fe2O4) nanoparticles. *Journal of Alloys and Compounds*, **2015**, 643, 174-180	5.7	30
162	Polyacrylamide-assisted combustion-carbothermal synthesis of well-distributed SiC nanowires. *Ceramics International*, **2015**, 41, 14585-14591	5.1	7
161	Superior destabilization effects of LiBH4 with the addition of nano-sized nickel ferrite NiFe2O4. *RSC Advances*, **2015**, 5, 81212-81219	3.7	23
160	The development of metal hydrides using as concentrating solar thermal storage materials. *Frontiers of Materials Science*, **2015**, 9, 317-331	2.5	17
159	One pot solution combustion synthesis of highly mesoporous hematite for photocatalysis. *Ceramics International*, **2015**, 41, 2806-2812	5.1	66
158	Superior optical properties of Fe3+□W18O49 nanoparticles prepared by solution combustion synthesis. *New Journal of Chemistry*, **2015**, 39, 1196-1201	3.6	15
157	X-ray analysis of powder-binder separation during SiC injection process in L-shaped mould. *Journal of the European Ceramic Society*, **2015**, 35, 61-67	6	9

156	Microstructure and thermal properties of copper□diamond composites with tungsten carbide coating on diamond particles. *Materials Characterization*, **2015**, 105, 18-23	3.9	50
155	Three-dimensional simulation of sintering crunodes of metal powders or fibers by level set method. *Journal of Central South University*, **2015**, 22, 2446-2455	2.1	3
154	X-ray tomography analysis of aluminum alloy powder compaction. *Rare Metals*, **2015**, 1	5.5	1
153	A comparative investigation on MIM418 superalloy fabricated using gas- and water-atomized powders. *Powder Technology*, **2015**, 286, 798-806	5.2	12
152	Preparation and Thermal Conductivity of Spark Plasma Sintered Aluminum Matrix Composites Reinforced with Titanium-Coated Graphite Fibers. *Advanced Engineering Materials*, **2015**, 17, 502-511	3.5	12
151	Effect of Diamond Shape on Thermal-Physical Properties of Diamond/Cu Composites. *Advanced Materials Research*, **2015**, 1095, 12-15	0.5	
150	Two-Step Carbothermal Synthesis of AlN□SiC Solid Solution Powder Using Combustion Synthesized Precursor. *Journal of the American Ceramic Society*, **2015**, 98, 1066-1073	3.8	5
149	Fabrication and thermo-physical properties of graphite flake/copper composites. *Journal of Composite Materials*, **2015**, 49, 3323-3330	2.7	15
148	Solution combustion synthesis of Ni□2O3 nanocomposite powder. *Transactions of Nonferrous Metals Society of China*, **2015**, 25, 129-136	3.3	6
147	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
146	Solution combustion synthesis of Fe-Ni-Y2O3 nanocomposites for magnetic application. *Journal of Central South University*, **2015**, 22, 23-29	2.1	1
145	Bulk observation of aluminum green compacts by way of X-ray tomography. *Nuclear Instruments & Methods in Physics Research B*, **2014**, 319, 146-153	1.2	7
144	Preparation of SiC nanopowder using low-temperature combustion synthesized precursor. *Materials Chemistry and Physics*, **2014**, 144, 560-567	4.4	12
143	Ferritic alloys strengthened by □ phase and nanosized oxide. *Materials Letters*, **2014**, 117, 286-289	3.3	4
142	Effect of chromium carbide coating on thermal properties of short graphite fiber/Al composites. *Journal of Materials Science*, **2014**, 49, 6705-6715	4.3	22
141	Hollow core-shell structured Si/C nanocomposites as high-performance anode materials for lithium-ion batteries. *Nanoscale*, **2014**, 6, 3138-42	7.7	112
140	Enhanced hydrogen storage properties of LiAlH4 catalyzed by CoFe2O4 nanoparticles. *RSC Advances*, **2014**, 4, 18989-18997	3.7	27
139	Non-surfactant-assisted synthesis, size control and electrocatalytic activity of Cu nanoparticles immobilized on carbon spheres. *New Journal of Chemistry*, **2014**, 38, 3154	3.6	3

138	Significantly improved dehydrogenation of ball-milled MgH2 doped with CoFe2O4 nanoparticles. *Journal of Power Sources*, **2014**, 268, 778-786	8.9	39
137	Facile route for synthesis of mesoporous Cr2O3 sheet as anode materials for Li-ion batteries. *Electrochimica Acta*, **2014**, 139, 76-81	6.7	37
136	AlN powder synthesis by sodium fluoride-assisted carbothermal combustion. *Ceramics International* , **2014**, 40, 14447-14452	5.1	16
135	NbCl5 and CrCl3 catalysts effect on synthesis and hydrogen storage performance of MgNiNiO composites. *Bulletin of Materials Science*, **2014**, 37, 77-82	1.7	3
134	Microstructure and mechanical properties of spark plasma sintered Ti-Mo alloys for dental applications. *International Journal of Minerals, Metallurgy and Materials*, **2014**, 21, 479-486	3.1	13
133	Study of the hydrogen-induced amorphization in the LaNi2.28 alloy. *RSC Advances*, **2014**, 4, 27207-27212	3.7	1
132	NaAlH4 dehydrogenation properties enhanced by MnFe2O4 nanoparticles. *Journal of Power Sources*, **2014**, 248, 388-395	8.9	20
131	Effect of ball milling on the rheology and particle characteristics of Fe50%Ni powder injection molding feedstock. *Journal of Alloys and Compounds*, **2014**, 590, 41-45	5.7	15
130	High velocity compaction of 0.9Al2O3/Cu composite powder. *Materials & Design*, **2014**, 57, 546-550		14
129	Influence of process parameters on the characteristics of TiAl alloyed powders by fluidized bed jet milling. *Powder Technology*, **2014**, 254, 235-240	5.2	28
128	Glucose-assisted combustion-nitridation synthesis of well-distributed CrN nanoparticles. *Materials Research Bulletin*, **2014**, 52, 74-77	5.1	8
127	The Precipitation Behavior of Secondary Phase in Superalloy FGH96 During Aging Treatment. *High Temperature Materials and Processes*, **2014**, 33, 485-488	0.9	2
126	Hierarchical Cu4V2.15O9.38 superstructures assembled by single-crystalline rods: their synthesis, characteristics and electrochemical properties. *RSC Advances*, **2014**,	3.7	1
125	Effect of Si on the Wettability of SiC/Al System. *Applied Mechanics and Materials*, **2014**, 496-500, 275-278	0.3	4
124	Microstructures and Properties of Abrasion-Resistant Cobalt-Base Alloy K-C20WN Prepared by Centrifugal Casting. *Applied Mechanics and Materials*, **2014**, 496-500, 288-291	0.3	
123	Investigation on Micro Components Fabricated by Micro Powder Injection Molding. *Materials Science Forum*, **2014**, 789, 350-354	0.4	
122	Preparation and Properties of (SiCp+Al2O3f)/7075Al Composites by Pressure Infiltration. *Applied Mechanics and Materials*, **2014**, 496-500, 348-351	0.3	
121	Fabrication and thermal conductivity of short graphite fiber/Al composites by vacuum pressure infiltration. *Journal of Composite Materials*, **2014**, 48, 2207-2214	2.7	20

120	Microstructure and thermal expansion behavior of diamond/SiC/(Si) composites fabricated by reactive vapor infiltration. *Journal of the European Ceramic Society*, **2014**, 34, 1139-1147	6	19
119	Improved hydrogen storage performances of MgH2–NaAlH4 system catalyzed by TiO2 nanoparticles. *Journal of Alloys and Compounds*, **2014**, 604, 317-324	5.7	28
118	Thermodynamic consistent phase field model for sintering process with multiphase powders. *Transactions of Nonferrous Metals Society of China*, **2014**, 24, 783-789	3.3	11
117	Effect of impact force on Ti–10Mo alloy powder compaction by high velocity compaction technique. *Materials & Design*, **2014**, 54, 149-153		13
116	Thermophysical properties and microstructure of graphite flake/copper composites processed by electroless copper coating. *Journal of Alloys and Compounds*, **2014**, 587, 255-259	5.7	69
115	Fabrication and thermal conductivity of copper matrix composites reinforced with Mo2C or TiC coated graphite fibers. *Materials Research Bulletin*, **2013**, 48, 4811-4817	5.1	34
114	Synthesis, characterization, shape evolution, and optical properties of copper sulfide hexagonal bifrustum nanocrystals. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	12
113	One-pot synthesis of Cu–carbon hybrid hollow spheres. *Carbon*, **2013**, 62, 472-480	10.4	22
112	Microstructure and thermal properties of copper matrix composites reinforced with titanium-coated graphite fibers. *Rare Metals*, **2013**, 32, 75-80	5.5	15
111	Preparation of high thermal conductivity copper–diamond composites using molybdenum carbide-coated diamond particles. *Journal of Materials Science*, **2013**, 48, 6133-6140	4.3	33
110	Effect of titanium carbide coating on the microstructure and thermal conductivity of short graphite fiber/copper composites. *Journal of Materials Science*, **2013**, 48, 5810-5817	4.3	14
109	The influence of reagents on the preparation of Cu nanowires by tetradecylamine-assisted hydrothermal method. *Journal of Materials Science*, **2013**, 48, 4073-4080	4.3	25
108	Preparation of TiN nanopowder by carbothermal reduction of a combustion synthesized precursor. *Materials Characterization*, **2013**, 81, 76-84	3.9	16
107	Compaction of Ti–6Al–4V powder using high velocity compaction technique. *Materials & Design*, **2013**, 50, 479-483		29
106	Improvement of a high velocity compaction technique for iron powder. *Acta Metallurgica Sinica (English Letters)*, **2013**, 26, 399-403	2.5	4
105	Dehydrogenation Improvement of LiAlH4 Catalyzed by Fe2O3 and Co2O3 Nanoparticles. *Journal of Physical Chemistry C*, **2013**, 117, 18343-18352	3.8	53
104	Fabrication of Short Graphite Fiber Preforms for Liquid Metal Infiltration. *Journal of Materials Engineering and Performance*, **2013**, 22, 1649-1654	1.6	8
103	X-ray tomographic analysis of powder-binder separation in SiC green body. *Journal of the European Ceramic Society*, **2013**, 33, 2935-2941	6	11

102	Improved Hydrogen Storage Performance of MgH2–LiAlH4 Composite by Addition of MnFe2O4. *Journal of Physical Chemistry C*, **2013**, 117, 26940-26947	3.8	26
101	Effect of molybdenum carbide intermediate layers on thermal properties of copper–diamond composites. *Journal of Alloys and Compounds*, **2013**, 576, 380-385	5.7	41
100	Carbothermal synthesis of ZrC powders using a combustion synthesis precursor. *International Journal of Refractory Metals and Hard Materials*, **2013**, 36, 204-210	4.1	28
99	Preparation and properties of porous Ti-10Mo alloy by selective laser sintering. *Materials Science and Engineering C*, **2013**, 33, 1085-90	8.3	29
98	Preparation of copper–diamond composites with chromium carbide coatings on diamond particles for heat sink applications. *Applied Thermal Engineering*, **2013**, 60, 423-429	5.8	79
97	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
96	Carbothermal synthesis of Si3N4 powders using a combustion synthesis precursor. *International Journal of Minerals, Metallurgy and Materials*, **2013**, 20, 76-81	3.1	3
95	Injection molding and debinding of micro gears fabricated by micro powder injection molding. *International Journal of Minerals, Metallurgy and Materials*, **2013**, 20, 82-87	3.1	6
94	MgH2 dehydrogenation properties improved by MnFe2O4 nanoparticles. *Journal of Power Sources*, **2013**, 239, 201-206	8.9	58
93	Constructing ZnO nanorod array photoelectrodes for highly efficient quantum dot sensitized solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 6770	13	67
92	ZnO/TiO2 nanocable structured photoelectrodes for CdS/CdSe quantum dot co-sensitized solar cells. *Nanoscale*, **2013**, 5, 936-43	7.7	115
91	Architectured ZnO photoelectrode for high efficiency quantum dot sensitized solar cells. *Energy and Environmental Science*, **2013**, 6, 3542	35.4	107
90	Effects of the functional groups on the electrochemical properties of ordered porous carbon for supercapacitors. *Electrochimica Acta*, **2013**, 105, 299-304	6.7	132
89	NiFe2O4 Nanoparticles Catalytic Effects of Improving LiAlH4 Dehydrogenation Properties. *Journal of Physical Chemistry C*, **2013**, 117, 25917-25925	3.8	39
88	Microstructure and properties of nano-TiN modified Ti(C,N)-based cermets fabricated by powder injection molding and die pressing. *International Journal of Minerals, Metallurgy and Materials*, **2013**, 20, 1115-1121	3.1	3
87	Fabrication of Ni-Base ODS Alloys via Reactive Ball Milling. *Applied Mechanics and Materials*, **2013**, 275-277, 2221-2225	0.3	1
86	NbF5 and CrF3 Catalysts Effects on Synthesis and Hydrogen Storage Performance of Mg-Ni-NiO Composites. *Advanced Materials Research*, **2013**, 681, 31-37	0.5	1
85	Effect of TiC Intermediate Layers on the Thermal Conductivity of Copper/Diamond Composites. *Applied Mechanics and Materials*, **2013**, 275-277, 1610-1614	0.3	2

84	Low temperature hydrothermal synthesis of nano-sized manganese oxide for supercapacitors. *Electrochimica Acta*, **2012**, 66, 302-305	6.7	46
83	In situ synthesis of TiO2/graphene nanosheets composites as anode materials for high-power lithium ion batteries. *Electrochimica Acta*, **2012**, 69, 328-333	6.7	58
82	Facile synthesis of ordered porous Si@C nanorods as anode materials for Li-ion batteries. *Electrochimica Acta*, **2012**, 71, 194-200	6.7	120
81	Citric Acid-Assisted Combustion-Carbothermal Synthesis of Well-Distributed Highly Sinterable AlN Nanopowders. *Journal of the American Ceramic Society*, **2012**, 95, 2510-2515	3.8	31
80	Thermal evolution behavior of carbides and γ′ precipitates in FGH96 superalloy powder. *Materials Characterization*, **2012**, 67, 52-64	3.9	29
79	Significantly Improved Dehydrogenation of LiAlH4 Destabilized by MnFe2O4 Nanoparticles. *Journal of Physical Chemistry C*, **2012**, 116, 11939-11945	3.8	70
78	A Novel Process for Making Spherical Powders of High Nb Containing TiAl Alloys. *Key Engineering Materials*, **2012**, 520, 111-119	0.4	1
77	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
76	Interweaved Si@SiOx/C nanoporous spheres as anode materials for Li-ion batteries. *Solid State Ionics*, **2012**, 220, 1-6	3.3	47
75	Enhanced Performance of CdS/CdSe Quantum Dot Cosensitized Solar Cells via Homogeneous Distribution of Quantum Dots in TiO2 Film. *Journal of Physical Chemistry C*, **2012**, 116, 18655-18662	3.8	158
74	Hot deformation behavior of Co-base ODS alloys. *Journal of Alloys and Compounds*, **2012**, 512, 39-46	5.7	21
73	Effect of urea on the size and morphology of AlN nanoparticles synthesized from combustion synthesis precursors. *Journal of Alloys and Compounds*, **2012**, 530, 144-151	5.7	31
72	Effect of molybdenum as interfacial element on the thermal conductivity of diamond/Cu composites. *Journal of Alloys and Compounds*, **2012**, 529, 134-139	5.7	89
71	Simulation of flow field and particle trajectory of radio frequency inductively coupled plasma spheroidization. *Computational Materials Science*, **2012**, 65, 13-18	3.2	13
70	Influence of Ag Impurity Doping on the Microstructure and Hardness of Alumina Dispersion Strengthened Copper Alloys. *Procedia Engineering*, **2012**, 27, 880-886		1
69	Microstructure and mechanical properties of γ′ strengthened Co–Ni–Al–W-base ODS alloys. *Materials Chemistry and Physics*, **2012**, 136, 371-378	4.4	9
68	Effect of aluminum source on the synthesis of AlN powders from combustion synthesis precursors. *Materials Research Bulletin*, **2012**, 47, 2475-2479	5.1	24
67	Enhanced hydrogen storage performance for MgH2–NaAlH4 system: the effects of stoichiometry and Nb2O5 nanoparticles on cycling behaviour. *RSC Advances*, **2012**, 2, 4891	3.7	38

66	Microstructural Characterization of Co-Based ODS Alloys. *Journal of Materials Engineering and Performance*, **2012**, 21, 2487-2494	1.6	13
65	Effect of inclusion on high cycle fatigue response of a powder metallurgy tool steel. *Journal of Central South University*, **2012**, 19, 1773-1779	2.1	3
64	Mechanical properties and expansion coefficient of Mo-Cu composites with different Ni contents. *Rare Metals*, **2012**, 31, 368-371	5.5	13
63	Effect of stearic acid on the morphological and structural evolution of mechanically milled Nb-based powder. *International Journal of Minerals, Metallurgy and Materials*, **2012**, 19, 1052-1057	3.1	
62	Study on the impact force and green properties of high-velocity compacted aluminum alloy powder. *International Journal of Minerals, Metallurgy and Materials*, **2012**, 19, 1107-1113	3.1	7
61	Fabrication of micro-fine high Nb-containing TiAl alloyed powders by fluidized bed jet milling. *Rare Metals*, **2012**, 31, 1-6	5.5	3
60	High-temperature mechanical properties and deformation behavior of high Nb containing TiAl alloys fabricated by spark plasma sintering. *International Journal of Minerals, Metallurgy and Materials*, **2012**, 19, 354-359	3.1	9
59	Effect of inclusion size on the high cycle fatigue strength and failure mode of a high V alloyed powder metallurgy tool steel. *International Journal of Minerals, Metallurgy and Materials*, **2012**, 19, 608-614	3.1	7
58	The effect of reduction time on the surface functional groups and supercapacitive performance of graphene nanosheets. *Carbon*, **2012**, 50, 3724-3730	10.4	59
57	Application Status and Market Analysis of Non-Aero Titanium in China. *Key Engineering Materials*, **2012**, 520, 8-14	0.4	2
56	Fabrication of Nb-Based Alloy via Spark Plasma Sintering. *Advanced Materials Research*, **2012**, 557-559, 38-41	0.5	1
55	Effect of BPR on the Preparation of Nb-Base Powder via Ball Milling. *Advanced Materials Research*, **2012**, 535-537, 2554-2558	0.5	1
54	Structural Characteristics and Mechanical Properties of Biomedical Porous Ti-10Mo Alloy Fabricated by Selective Laser Sintering. *Key Engineering Materials*, **2012**, 520, 234-241	0.4	
53	The Influence of Ni on the Microstructure of Co-Base ODS Alloys. *Advanced Materials Research*, **2012**, 535-537, 1011-1014	0.5	0
52	Hydrogen Storage Properties of Mg1.7 M0.3 Ni(M=Mg, La, Ce, Nd) Hydrogen Storage Alloys. *Advanced Materials Research*, **2012**, 512-515, 1503-1508	0.5	
51	Effect of Annealing Treatment on Gaseous Hydrogen Characteristics and Electrochemical Properties of La0.67Mg0.33Ni2.5 Co0.5 Alloy Electrodes. *Advanced Materials Research*, **2012**, 512-515, 1882-1887	0.5	
50	Microstructural Development and Coarsening Behavior of γ′ Precipitates in Co–Ni–Al–W-Base ODS Alloys. *Materials Transactions*, **2012**, 53, 1922-1928	1.3	2
49	Hydrogen Sorption Improvement of LiAlH4 Catalyzed by Nb2O5 and Cr2O3 Nanoparticles. *Journal of Physical Chemistry C*, **2011**, 115, 13088-13099	3.8	52

48	Review of metal matrix composites with high thermal conductivity for thermal management applications. *Progress in Natural Science: Materials International*, **2011**, 21, 189-197	3.6	167
47	Effect of coating on the microstructure and thermal conductivities of diamond□Cu composites prepared by powder metallurgy. *Composites Science and Technology*, **2011**, 71, 1550-1555	8.6	138
46	Self-supporting Si/Reduced Graphene Oxide nanocomposite films as anode for lithium ion batteries. *Electrochemistry Communications*, **2011**, 13, 1332-1335	5.1	122
45	Fabrication and thermal conductivity of near-net-shaped diamond/copper composites by pressureless infiltration. *Journal of Materials Science*, **2011**, 46, 3862-3867	4.3	19
44	Comparative catalytic effects of NiCl2, TiC and TiN on hydrogen storage properties of LiAlH4. *Rare Metals*, **2011**, 30, 27-34	5.5	10
43	Microstructure characterization of a pressureless infiltrating oxidized SiCp preform by Al-8Mg. *International Journal of Minerals, Metallurgy and Materials*, **2011**, 18, 223-228	3.1	1
42	Fabrication and thermal stability of Ni-P coated diamond powder using electroless plating. *International Journal of Minerals, Metallurgy and Materials*, **2011**, 18, 479-486	3.1	14
41	Effect of Mg and Si on infiltration behavior of Al alloys pressureless infiltration into porous SiCp preforms. *International Journal of Minerals, Metallurgy and Materials*, **2011**, 18, 703-708	3.1	9
40	Microstructural Formation in Novel Co-Base ODS Alloys Produced by Mechanical Alloying. *Advanced Materials Research*, **2011**, 415-417, 1136-1139	0.5	3
39	Microstructure characterization of a pressureless infiltrating oxidized SiCp preform by Al-8Mg. *International Journal of Minerals, Metallurgy and Materials*, **2011**, 18, 223-228	3.1	
38	Catalytic effects of nano-sized TiC additions on the hydrogen storage properties of LiAlH4. *Journal of Alloys and Compounds*, **2010**, 508, 119-128	5.7	68
37	Factors affecting the replication quality of micro metal gears produced by □PIM. *Microsystem Technologies*, **2010**, 16, 391-397	1.7	2
36	Fabrication of Ti3AlC2 ceramic material by mechanical alloying. *Rare Metals*, **2010**, 29, 376-379	5.5	4
35	Fabrication and sintering behavior of high-nitrogen nickel-free stainless steels by metal injection molding. *International Journal of Minerals, Metallurgy and Materials*, **2010**, 17, 423-428	3.1	14
34	Polyaniline nanofibers obtained by interfacial polymerization for high-rate supercapacitors. *Electrochimica Acta*, **2010**, 56, 964-968	6.7	183
33	Porous polyaniline exhibits highly enhanced electrochemical capacitance performance. *Electrochimica Acta*, **2010**, 55, 5819-5822	6.7	70
32	Y2O3 evolution and dispersion refinement in Co-base ODS alloys. *Acta Materialia*, **2009**, 57, 3671-3682	8.4	93
31	Experimental and modeling study of the thermal conductivity of SiCp/Al composites with bimodal size distribution. *Journal of Materials Science*, **2009**, 44, 4370-4378	4.3	35

30	Net-shape forming of composite packages with high thermal conductivity. *Science in China Series D: Earth Sciences*, **2009**, 52, 238-242		11
29	Effect of powder particle size on green properties and stress wave. *Frontiers of Materials Science in China*, **2009**, 3, 319-324		2
28	Comparative research on high-velocity compaction and conventional rigid die compaction. *Frontiers of Materials Science in China*, **2009**, 3, 447-451		18
27	Magnetic properties and thermal stability of anisotropic bonded Nd-Fe-B magnets by warm compaction. *Rare Metals*, **2009**, 28, 245-247	5.5	2
26	Influence of carbon on the synthesis of AlN powder from combustion synthesis precursors. *Journal of the European Ceramic Society*, **2009**, 29, 795-799	6	26
25	Microstructure and mechanical properties of high Nb containing TiAl alloy parts fabricated by metal injection molding. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 526, 31-37	5.3	37
24	Study on methods to strengthen SiC preforms for SiCp/Al composites by pressureless infiltration. *Journal of Alloys and Compounds*, **2009**, 468, 158-163	5.7	39
23	Net-shape forming and properties of high volume fraction SiCp/Al composites. *Journal of Alloys and Compounds*, **2009**, 484, 256-262	5.7	38
22	Synthesis of aluminum nitride powder by carbothermal reduction of a combustion synthesis precursor. *Materials Research Bulletin*, **2008**, 43, 2954-2960	5.1	46
21	Effect of controlled interfacial reaction on the microstructure and properties of the SiCp/Al composites prepared by pressureless infiltration. *Journal of Alloys and Compounds*, **2008**, 455, 424-431	5.7	58
20	Micro powder injection molding□arge scale production technology for micro-sized components. *Science in China Series D: Earth Sciences*, **2008**, 51, 121-126		14
19	Crystallization and wetting of ZnO-Al2O3-B2O3-SiO2 glass-ceramic for sealing to Kovar alloy. *Frontiers of Materials Science in China*, **2008**, 2, 345-350		1
18	Effect of particle size distribution on green properties during high velocity compaction. *Frontiers of Materials Science in China*, **2008**, 2, 392-396		4
17	Microstructure and thermo-mechanical properties of pressureless infiltrated SiCp/Cu composites. *Composites Science and Technology*, **2008**, 68, 2731-2738	8.6	24
16	Effect of Mg and Si in the aluminum on the thermo-mechanical properties of pressureless infiltrated SiCp/Al composites. *Composites Science and Technology*, **2007**, 67, 2103-2113	8.6	68
15	Effect of calcination process on the properties and microstructure of SiC preform and corresponding SiCp/Al composites synthesis by pressureless infiltration. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 444, 112-119	5.3	14
14	Effect of Si addition to Al□Mg alloy on the microstructure and thermo-physical properties of SiCp/Al composites prepared by pressureless infiltration. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2007**, 138, 263-270	3.1	26
13	Fabrication of an electronic package box of SiCP/Al composites with high volume SiCP. *Frontiers of Materials Science in China*, **2007**, 1, 181-186		

12	Behavior of residual carbon in Sm(Co, Fe, Cu, Zr)z permanent magnets. *Journal of Alloys and Compounds*, **2007**, 440, 89-93	5.7	8
11	A new type of binder for metal injection molding. *Journal of Materials Processing Technology*, **2003**, 137, 70-73	5.3	24
10	The rheological and sintering behavior of WNiFe nano-structured crystalline powder. *Journal of Materials Processing Technology*, **2003**, 137, 177-182	5.3	35
9	The rheology of metal injection molding. *Journal of Materials Processing Technology*, **2003**, 137, 132-137	5.3	102
8	Crystal structure and morphology of a new compound, LiB. *Journal of Alloys and Compounds*, **2000**, 311, 256-264	5.7	41
7	Additive manufacturing of WMoTaTi refractory high-entropy alloy by employing fluidised powders. *Powder Metallurgy*,1-13	1.9	2
6	Nano-precipitate and its aging behavior in a B2-NiAl strengthened ferritic ODS alloy. *Journal of Materials Science*,1	4.3	
5	Transition-Metal Vacancy Manufacturing and Sodium-Site Doping Enable a High-Performance Layered Oxide Cathode through Cationic and Anionic Redox Chemistry. *Advanced Functional Materials*,2106923	15.6	11
4	Ultrahigh Pt-Mass-Activity Hydrogen Evolution Catalyst Electrodeposited from Bulk Pt. *Advanced Functional Materials*,2112207	15.6	8
3	Thermal and mechanical properties of diamond/SiC substrate reinforced by bimodal diamond particles. *Carbon Letters*,1	2.3	0
2	Unexpected Role of the Interlayer Dead Zn 2+ In Strengthening the Nanostructures of VS 2 Cathodes for High-Performance Aqueous Zn-Ion Storage. *Advanced Energy Materials*,2104001	21.8	9
1	Effect of solution treatment on microstructure and properties of 00Cr32Ni7Mo3.5N. *Powder Metallurgy*,1-12	1.9	