

Zheng Xiao Guo

List of Publications by Year in descending order

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272
papers

18,962
citations

15880

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129
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279
all docs

279
docs citations

279
times ranked

26726
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Nucleation and growth in solution synthesis of nanostructures â€œ From fundamentals to advanced applications. Progress in Materials Science, 2022, 123, 100821. | 16.0 | 55 |
| 2 | Indirect to Direct Charge Transfer Transition in Plasmonâ€Enabled CO ₂ Photoreduction. Advanced Science, 2022, 9, e2102978. | 5.6 | 24 |
| 3 | Negative differential friction coefficients of two-dimensional commensurate contacts dominated by electronic phase transition. Nano Research, 2022, 15, 5758-5766. | 5.8 | 5 |
| 4 | Effective Ensemble of Pt Single Atoms and Clusters over the (Ni,Co)(OH) ₂ Substrate Catalyzes Highly Selective, Efficient, and Stable Hydrogenation Reactions. ACS Catalysis, 2022, 12, 8104-8115. | 5.5 | 20 |
| 5 | Co ³⁺ -O-V ⁴⁺ cluster in CoVO _x nanorods for efficient and stable electrochemical oxygen evolution. Applied Catalysis B: Environmental, 2021, 282, 119571. | 10.8 | 39 |
| 6 | TiO ₂ decorated porous carbonaceous network structures offer confinement, catalysis and thermal conductivity for effective hydrogen storage of LiBH ₄ . Chemical Engineering Journal, 2021, 407, 127156. | 6.6 | 39 |
| 7 | Multifunctional two-dimensional glassy graphene devices for vis-NIR photodetection and volatile organic compound sensing. Science China Materials, 2021, 64, 1964-1976. | 3.5 | 5 |
| 8 | Confined Synthesis: From Layered Titanate to Highly Efficient and Durable Mesoporous Cu/TiO ₂ Hydrogen Evolution Photocatalysts. ACS Applied Energy Materials, 2021, 4, 4050-4058. | 2.5 | 8 |
| 9 | Porosity Engineering of MOFâ€Based Materials for Electrochemical Energy Storage. Advanced Energy Materials, 2021, 11, 2100154. | 10.2 | 75 |
| 10 | Ferroceneâ€Based Metalâ€Organic Framework Nanosheets as a Robust Oxygen Evolution Catalyst. Angewandte Chemie - International Edition, 2021, 60, 12770-12774. | 7.2 | 111 |
| 11 | Ferroceneâ€Based Metalâ€Organic Framework Nanosheets as a Robust Oxygen Evolution Catalyst. Angewandte Chemie, 2021, 133, 12880-12884. | 1.6 | 4 |
| 12 | Electrochemical Energy Storage: Porosity Engineering of MOFâ€Based Materials for Electrochemical Energy Storage (Adv. Energy Mater. 20/2021). Advanced Energy Materials, 2021, 11, 2170078. | 10.2 | 4 |
| 13 | Rational Design of Pt~Pd~Ni Trimetallic Nanocatalysts for Roomâ€Temperature Benzaldehyde and Styrene Hydrogenation. Chemistry - an Asian Journal, 2021, 16, 2298-2306. | 1.7 | 7 |
| 14 | Developing Nâ€Rich Carbon from C ₃ N ₄ â€Polydopamine Composites for Efficient Oxygen Reduction Reaction. ChemElectroChem, 2021, 8, 3954-3961. | 1.7 | 4 |
| 15 | Crystallinity-Modulated Co ₂ â€V ₂ O ₄ Nanoplates for Efficient Electrochemical Water Oxidation. ACS Catalysis, 2021, 11, 14884-14891. | 5.5 | 23 |
| 16 | In Situ Introduction of Li ₃ BO ₃ and NbH Leads to Superior Cyclic Stability and Kinetics of a LiBH ₄ -Based Hydrogen Storage System. ACS Applied Materials & Interfaces, 2020, 12, 893-903. | 4.0 | 21 |
| 17 | Ambipolar and Robust WSe ₂ Fieldâ€Effect Transistors Utilizing Selfâ€Assembled Edge Oxides. Advanced Materials Interfaces, 2020, 7, 1901628. | 1.9 | 11 |
| 18 | Trace-Level Fluorination of Mesoporous TiO ₂ Improves Photocatalytic and Pb(II) Adsorbent Performances. Inorganic Chemistry, 2020, 59, 17631-17637. | 1.9 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | A Metal-Free Oxygenated Covalent Triazine 2-D Photocatalyst Works Effectively from the Ultraviolet to Near-Infrared Spectrum for Water Oxidation Apart from Water Reduction. ACS Applied Energy Materials, 2020, 3, 8960-8968. | 2.5 | 7 |
| 20 | Unique hole-accepting carbon-dots promoting selective carbon dioxide reduction nearly 100% to methanol by pure water. Nature Communications, 2020, 11, 2531. | 5.8 | 168 |
| 21 | Tuning the interlayer spacing of graphene laminate films for efficient pore utilization towards compact capacitive energy storage. Nature Energy, 2020, 5, 160-168. | 19.8 | 381 |
| 22 | Assembly of 1Tâ€²-MoS ₂ based fibers for flexible energy storage. Nanoscale, 2020, 12, 6562-6570. | 2.8 | 10 |
| 23 | Stable Complete Water Splitting by Covalent Triazineâ€based Framework CTFâ€O. ChemCatChem, 2020, 12, 2708-2712. | 1.8 | 13 |
| 24 | Spatially Bandgap-Graded MoS ₂ (1âˆ™x)Se _{2x} Homojunctions for Self-Powered Visibleâ€Near-Infrared Phototransistors. Nano-Micro Letters, 2020, 12, 26. | 14.4 | 22 |
| 25 | Ba ₆ In ₆ Zn ₄ Se ₁₉ : a high performance infrared nonlinear optical crystal with [InSe ₃] ^{3âˆ™} trigonal planar functional motifs. Journal of Materials Chemistry C, 2020, 8, 7947-7955. | 2.7 | 15 |
| 26 | Flexible and Selfâ€Powered Photodetector Arrays Based on Allâ€Inorganic CsPbBr ₃ Quantum Dots. Advanced Materials, 2020, 32, e2000004. | 11.1 | 134 |
| 27 | Investigation of metaldehyde removal by powdered activated carbon from different water samples. Environmental Science: Water Research and Technology, 2020, 6, 1432-1444. | 1.2 | 9 |
| 28 | Strain Engineering of a Defect-Free, Single-Layer MoS ₂ Substrate for Highly Efficient Single-Atom Catalysis of CO Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 32887-32894. | 4.0 | 33 |
| 29 | Tunable Covalent Triazine-Based Frameworks (CTF-O) for Visible-Light-Driven Hydrogen and Oxygen Generation from Water Splitting. ACS Catalysis, 2019, 9, 7697-7707. | 5.5 | 131 |
| 30 | Towards rigorous multiscale flow models of nanoparticle reactivity in chemical looping applications. Catalysis Today, 2019, 338, 152-163. | 2.2 | 7 |
| 31 | The impact of humic acid on metaldehyde adsorption onto powdered activated carbon in aqueous solution. RSC Advances, 2019, 9, 11-22. | 1.7 | 13 |
| 32 | An efficient carbon-based ORR catalyst from low-temperature etching of ZIF-67 with ultra-small cobalt nanoparticles and high yield. Journal of Materials Chemistry A, 2019, 7, 3544-3551. | 5.2 | 112 |
| 33 | Synergetic effects of strain engineering and substrate defects on generating highly efficient single-atom catalysts for CO oxidation. Journal of Materials Chemistry A, 2019, 7, 9297-9304. | 5.2 | 12 |
| 34 | Functionalized Carbon Dots on Graphene as Outstanding Nonâ€Metal Bifunctional Oxygen Electrocatalyst. Small, 2019, 15, e1900296. | 5.2 | 58 |
| 35 | <i>in situ</i> synthesized low-PtCo@porous carbon catalyst for highly efficient hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 6543-6551. | 5.2 | 59 |
| 36 | Enhanced performance of ZnO nanoparticle decorated all-inorganic CsPbBr ₃ quantum dot photodetectors. Journal of Materials Chemistry A, 2019, 7, 6134-6142. | 5.2 | 64 |

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|----|--|------|-----------|
| 37 | Exceptional supercapacitor performance from optimized oxidation of graphene-oxide. <i>Energy Storage Materials</i> , 2019, 17, 12-21. | 9.5 | 135 |
| 38 | Tunable Bifunctional Activity of $Mn_xCo_{3-x}O_4$ Nanocrystals Decorated on Carbon Nanotubes for Oxygen Electrocatalysis. <i>ChemSusChem</i> , 2018, 11, 1248-1248. | 3.6 | 5 |
| 39 | Efficient visible light-driven water oxidation and proton reduction by an ordered covalent triazine-based framework. <i>Energy and Environmental Science</i> , 2018, 11, 1617-1624. | 15.6 | 212 |
| 40 | High Detectivity and Transparent Few-Layer MoS_2 /Glassy-Graphene Heterostructure Photodetectors. <i>Advanced Materials</i> , 2018, 30, e1706561. | 11.1 | 111 |
| 41 | Tunable Bifunctional Activity of $Mn_xCo_{3-x}O_4$ Nanocrystals Decorated on Carbon Nanotubes for Oxygen Electrocatalysis. <i>ChemSusChem</i> , 2018, 11, 1295-1304. | 3.6 | 50 |
| 42 | $PbGa_2GeS_6$: An Infrared Nonlinear Optical Material Synthesized by an Intermediate-Temperature Self-Fluxing Method. <i>Crystal Growth and Design</i> , 2018, 18, 1162-1167. | 1.4 | 30 |
| 43 | Topological phase transitions driven by strain in monolayer tellurium. <i>Physical Review B</i> , 2018, 98, . | 1.1 | 34 |
| 44 | Cobalt nickel nitride coated by a thin carbon layer anchoring on nitrogen-doped carbon nanotube anodes for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19853-19862. | 5.2 | 38 |
| 45 | Epitaxial Growth of Few-Layer Black Phosphorene Quantum Dots on Si Substrates. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801048. | 1.9 | 20 |
| 46 | Solid solution nitride/carbon nanotube hybrids enhance electrocatalysis of oxygen in zinc-air batteries. <i>Energy Storage Materials</i> , 2018, 15, 380-387. | 9.5 | 32 |
| 47 | Preferential Pt Nanocluster Seeding at Grain Boundary Dislocations in Polycrystalline Monolayer MoS_2 . <i>ACS Nano</i> , 2018, 12, 5626-5636. | 7.3 | 27 |
| 48 | Ultrasmall $CuCo_2S_4$ Nanocrystals: All-in-One Theragnosis Nanoplatform with Magnetic Resonance/Near-Infrared Imaging for Efficiently Photothermal Therapy of Tumors. <i>Advanced Functional Materials</i> , 2017, 27, 1606218. | 7.8 | 106 |
| 49 | From single atoms to self-assembled quantum single-atomic nanowires: noble metal atoms on black phosphorene monolayers. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7864-7870. | 1.3 | 1 |
| 50 | A mechanochemical synthesis of submicron-sized Li_2S and a mesoporous Li_2S/C hybrid for high performance lithium/sulfur battery cathodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6471-6482. | 5.2 | 44 |
| 51 | Band gap scaling laws in group IV nanotubes. <i>Nanotechnology</i> , 2017, 28, 115202. | 1.3 | 8 |
| 52 | Amylose-Derived Macrohollow Core and Microporous Shell Carbon Spheres as Sulfur Host for Superior Lithium-Sulfur Battery Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10717-10729. | 4.0 | 77 |
| 53 | High efficiency solid-state dye-sensitized solar cells using a cobalt(<i>ii</i> / <i>iii</i>) redox mediator. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4875-4883. | 2.7 | 14 |
| 54 | Salt Templating with Pore Padding: Hierarchical Pore Tailoring towards Functionalised Porous Carbons. <i>ChemSusChem</i> , 2017, 10, 199-209. | 3.6 | 24 |

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|----|---|------|-----------|
| 55 | Active sites engineering leads to exceptional ORR and OER bifunctionality in P,N Co-doped graphene frameworks. <i>Energy and Environmental Science</i> , 2017, 10, 1186-1195. | 15.6 | 431 |
| 56 | A Targeted Functional Design for Highly Efficient and Stable Cathodes for Rechargeable Li-ion Batteries. <i>Advanced Functional Materials</i> , 2017, 27, 1604903. | 7.8 | 22 |
| 57 | Highly crystallized γ -FeOOH for a stable and efficient oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2021-2028. | 5.2 | 140 |
| 58 | Design of 3D Graphene-Oxide Spheres and Their Derived Hierarchical Porous Structures for High Performance Supercapacitors. <i>Small</i> , 2017, 13, 1702474. | 5.2 | 42 |
| 59 | An oxidized magnetic Au single atom on doped $\text{TiO}_2(110)$ becomes a high performance CO oxidation catalyst due to the charge effect. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19316-19322. | 5.2 | 49 |
| 60 | Multivalency-Driven Formation of Te-Based Monolayer Materials: A Combined First-Principles and Experimental study. <i>Physical Review Letters</i> , 2017, 119, 106101. | 2.9 | 409 |
| 61 | Self-standing electrodes with core-shell structures for high-performance supercapacitors. <i>Energy Storage Materials</i> , 2017, 9, 119-125. | 9.5 | 52 |
| 62 | Design of hyperporous graphene networks and their application in solid-amine based carbon capture systems. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17833-17840. | 5.2 | 48 |
| 63 | Exceptional thermoelectric performance of a "star-like" SnSe nanotube with ultra-low thermal conductivity and a high power factor. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23247-23253. | 1.3 | 7 |
| 64 | Graphitic nanostructures in a porous carbon framework significantly enhance electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24686-24694. | 5.2 | 30 |
| 65 | Nitrogen-Mediated Graphene Oxide Enables Highly Efficient Proton Transfer. <i>Scientific Reports</i> , 2017, 7, 5213. | 1.6 | 4 |
| 66 | Quasicontinuum simulations of geometric effect on onset plasticity of nano-scale patterned lines. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2017, 25, 065012. | 0.8 | 5 |
| 67 | Switching effective oxygen reduction and evolution performance by controlled graphitization of a cobalt-nitrogen-carbon framework system. <i>Energy and Environmental Science</i> , 2016, 9, 1661-1667. | 15.6 | 281 |
| 68 | Relative edge energy in the stability of transition metal nanoclusters of different motifs. <i>Nanoscale</i> , 2016, 8, 12834-12842. | 2.8 | 5 |
| 69 | Highly Efficient Oxygen Reduction Catalysts by Rational Synthesis of Nanoconfined Maghemite in a Nitrogen-Doped Graphene Framework. <i>ACS Catalysis</i> , 2016, 6, 3558-3568. | 5.5 | 74 |
| 70 | The effect of Ag, Pb and Bi impurities on grain boundary sliding and intergranular decohesion in Copper. <i>Philosophical Magazine</i> , 2016, 96, 2868-2886. | 0.7 | 9 |
| 71 | Substrate co-doping modulates electronic metal-support interactions and significantly enhances single-atom catalysis. <i>Nanoscale</i> , 2016, 8, 19256-19262. | 2.8 | 26 |
| 72 | Interplay between the spin-selection rule and frontier orbital theory in O_2 activation and CO oxidation by single-atom-sized catalysts on $\text{TiO}_2(110)$. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24872-24879. | 1.3 | 20 |

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|----|--|------|-----------|
| 73 | Anionic Dopants for Improved Optical Absorption and Enhanced Photocatalytic Hydrogen Production in Graphitic Carbon Nitride. <i>Chemistry of Materials</i> , 2016, 28, 7250-7256. | 3.2 | 39 |
| 74 | Graphene/nitrogen-doped porous carbon sandwiches for the metal-free oxygen reduction reaction: conductivity versus active sites. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12658-12666. | 5.2 | 99 |
| 75 | Understanding the Hydrophilicity and Water Adsorption Behavior of Nanoporous Nitrogen-Doped Carbons. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18167-18179. | 1.5 | 46 |
| 76 | Superacidity in Nafion/MOF Hybrid Membranes Retains Water at Low Humidity to Enhance Proton Conduction for Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30687-30691. | 4.0 | 139 |
| 77 | Naturally Nitrogen and Calcium-Doped Nanoporous Carbon from Pine Cone with Superior CO ₂ Capture Capacities. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1050-1057. | 3.2 | 78 |
| 78 | Highly effective sites and selectivity of nitrogen-doped graphene/CNT catalysts for CO ₂ electrochemical reduction. <i>Chemical Science</i> , 2016, 7, 1268-1275. | 3.7 | 199 |
| 79 | Highly efficient rutile TiO ₂ photocatalysts with single Cu(II) and Fe(III) surface catalytic sites. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3127-3138. | 5.2 | 73 |
| 80 | Soy protein directed hydrothermal synthesis of porous carbon aerogels for electrocatalytic oxygen reduction. <i>Carbon</i> , 2016, 96, 622-630. | 5.4 | 84 |
| 81 | An Ultrahigh Pore Volume Drives Up the Amine Stability and Cyclic CO ₂ Capacity of a Solid@Amine@Carbon Sorbent. <i>Advanced Materials</i> , 2015, 27, 4903-4909. | 11.1 | 81 |
| 82 | Intriguing structures and magic sizes of heavy noble metal nanoclusters around size 55 governed by relativistic effect and covalent bonding. <i>Journal of Chemical Physics</i> , 2015, 143, 174302. | 1.2 | 4 |
| 83 | Van der Waals Effects on semiconductor clusters. <i>Journal of Computational Chemistry</i> , 2015, 36, 1919-1927. | 1.5 | 5 |
| 84 | Naturally derived porous carbon with selective metal- and/or nitrogen-doping for efficient CO ₂ capture and oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5212-5222. | 5.2 | 65 |
| 85 | Mesoporous Fe ₂ O ₃ flakes of high aspect ratio encased within thin carbon skeleton for superior lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14178-14187. | 5.2 | 40 |
| 86 | A hybrid Si@FeSi _y /SiO _x anode structure for high performance lithium-ion batteries via ammonia-assisted one-pot synthesis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10767-10776. | 5.2 | 50 |
| 87 | Carbon Capture: An Ultrahigh Pore Volume Drives Up the Amine Stability and Cyclic CO ₂ Capacity of a Solid@Amine@Carbon Sorbent (<i>Adv. Mater.</i> 33/2015). <i>Advanced Materials</i> , 2015, 27, 4902-4902. | 11.1 | 2 |
| 88 | Visible-light driven heterojunction photocatalysts for water splitting – a critical review. <i>Energy and Environmental Science</i> , 2015, 8, 731-759. | 15.6 | 1,985 |
| 89 | Compressive Straining of Bilayer Phosphorene Leads to Extraordinary Electron Mobility at a New Conduction Band Edge. <i>Nano Letters</i> , 2015, 15, 2006-2010. | 4.5 | 40 |
| 90 | Single vacancy defects diffusion at the initial stage of graphene growth: A first-principles study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 1270-1273. | 0.9 | 2 |

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|-----|--|------|-----------|
| 91 | Magnetic evolution and anomalous Wilson transition in diagonal phosphorene nanoribbons driven by strain. <i>Nanotechnology</i> , 2015, 26, 295402. | 1.3 | 5 |
| 92 | Superior CO ₂ adsorption from waste coffee ground derived carbons. <i>RSC Advances</i> , 2015, 5, 29558-29562. | 1.7 | 61 |
| 93 | Tuning of ZIF-derived Carbon with High Activity, Nitrogen Functionality, and Yield – A Case for Superior CO ₂ Capture. <i>ChemSusChem</i> , 2015, 8, 2123-2132. | 3.6 | 197 |
| 94 | Effects of in-plane stiffness and charge transfer on thermal expansion of monolayer transition metal dichalcogenide*. <i>Chinese Physics B</i> , 2015, 24, 026501. | 0.7 | 29 |
| 95 | An effective template-free synthesis strategy for hierarchical titanium oxide hybrids: tailoring the solvent environment. <i>RSC Advances</i> , 2015, 5, 41059-41065. | 1.7 | 8 |
| 96 | Sub-surface alloying largely influences graphene nucleation and growth over transition metal substrates. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30270-30278. | 1.3 | 4 |
| 97 | Theoretical study of hydration in Y ₂ Mo ₃ O ₁₂ : Effects on structure and negative thermal expansion. <i>AIP Advances</i> , 2015, 5, . | 0.6 | 17 |
| 98 | Effect of Nitrogen Doping on the CO ₂ Adsorption Behavior in Nanoporous Carbon Structures: A Molecular Simulation Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22310-22321. | 1.5 | 108 |
| 99 | Graphene-based materials: Synthesis and gas sorption, storage and separation. <i>Progress in Materials Science</i> , 2015, 69, 1-60. | 16.0 | 601 |
| 100 | Intrinsic spin dependent and ferromagnetic stability on edge saturated zigzag graphene-like carbon-nitride nanoribbons. <i>Applied Physics Letters</i> , 2014, 104, 172111. | 1.5 | 8 |
| 101 | High-performance All-carbon Yarn Micro-supercapacitor for an Integrated Energy System. <i>Advanced Materials</i> , 2014, 26, 4100-4106. | 11.1 | 223 |
| 102 | Flexible and Binder-free Organic Cathode for High-performance Lithium-ion Batteries. <i>Advanced Materials</i> , 2014, 26, 3338-3343. | 11.1 | 200 |
| 103 | Hierarchically porous graphene sheets and graphitic carbon nitride intercalated composites for enhanced oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3209-3215. | 5.2 | 61 |
| 104 | Postsynthesis Annealing of MOF-5 Remarkably Enhances the Framework Structural Stability and CO ₂ Uptake. <i>Chemistry of Materials</i> , 2014, 26, 6333-6338. | 3.2 | 126 |
| 105 | Highly Efficient Photocatalytic H ₂ Evolution from Water using Visible Light and Structure-controlled Graphitic Carbon Nitride. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9240-9245. | 7.2 | 1,000 |
| 106 | Nitrogen-enriched and hierarchically porous carbon macro-spheres – ideal for large-scale CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5481-5489. | 5.2 | 66 |
| 107 | Exceptional CO ₂ capture in a hierarchically porous carbon with simultaneous high surface area and pore volume. <i>Energy and Environmental Science</i> , 2014, 7, 335-342. | 15.6 | 385 |
| 108 | Selective morphologies of MgO via nanoconfinement on γ -Al ₂ O ₃ and reduced graphite oxide (rGO): improved CO ₂ capture capacity at elevated temperatures. <i>CrystEngComm</i> , 2014, 16, 8825-8831. | 1.3 | 9 |

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|-----|---|------|-----------|
| 109 | Atomistic view of thin Ni/Ni ₃ Al (0 0 1) under uniaxial tension of twist grain boundaries. RSC Advances, 2014, 4, 4552-4557. | 1.7 | 12 |
| 110 | Enhanced hydrogen desorption of an ammonia borane and lithium hydride system through synthesised intermediate compounds. Journal of Materials Chemistry A, 2014, 2, 6801-6813. | 5.2 | 6 |
| 111 | Role of Charge Transfer in Dehydrogenation of M(NH ₂) ₂ BH ₃ (M = Ti, Zr, Hf). Journal of Materials Chemistry A, 2014, 2, 6801-6813. | 1.5 | 14 |
| 112 | Negative thermal expansion in TiF ₃ from the first-principles prediction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2906-2909. | 0.9 | 14 |
| 113 | First-principles investigation of negative thermal expansion in II-VI semiconductors. Materials Chemistry and Physics, 2014, 148, 214-222. | 2.0 | 23 |
| 114 | Strain and Orientation Modulated Bandgaps and Effective Masses of Phosphorene Nanoribbons. Nano Letters, 2014, 14, 4607-4614. | 4.5 | 306 |
| 115 | A thermally derived and optimized structure from ZIF-8 with giant enhancement in CO ₂ uptake. Energy and Environmental Science, 2014, 7, 2232-2238. | 15.6 | 222 |
| 116 | Fe ₂ O ₃ @TiO ₂ Nanocomposites for Enhanced Charge Separation and Photocatalytic Activity. Chemistry - A European Journal, 2014, 20, 15571-15579. | 1.7 | 146 |
| 117 | First-principles study of tetragonal PbTiO ₃ : Phonon and thermal expansion. Materials Research Bulletin, 2014, 49, 509-513. | 2.7 | 28 |
| 118 | Overview on Hydrogen Absorbing Materials. Advances in Chemical and Materials Engineering Book Series, 2014, , 312-342. | 0.2 | 0 |
| 119 | Dehydrogenation mechanisms of Ca(NH ₂ BH ₃) ₂ : The less the charge transfer, the lower the barrier. International Journal of Hydrogen Energy, 2013, 38, 11313-11320. | 3.8 | 8 |
| 120 | Structural and reaction pathway analyses of Mg(BH ₄) ₂ ·2NH ₃ for hydrogen storage : A first-principles study. International Journal of Hydrogen Energy, 2013, 38, 2836-2845. | 3.8 | 7 |
| 121 | Ca(BH ₄) ₂ ·LiBH ₄ ·MgH ₂ : a novel ternary hydrogen storage system with superior long-term cycling performance. Journal of Materials Chemistry A, 2013, 1, 12285. | 5.2 | 35 |
| 122 | Improved hydrogen storage performance of Ca(BH ₄) ₂ : a synergetic effect of porous morphology and in situ formed TiO ₂ . Energy and Environmental Science, 2013, 6, 847. | 15.6 | 35 |
| 123 | First-principles study of stacking fault energies in Mg-based binary alloys. Computational Materials Science, 2013, 79, 564-569. | 1.4 | 107 |
| 124 | Static recrystallization and grain growth during annealing of an extruded Mg-Zn-Zr-Er magnesium alloy. Journal of Magnesium and Alloys, 2013, 1, 31-38. | 5.5 | 46 |
| 125 | Negative thermal expansion correlated with polyhedral movements and distortions in orthorhombic Y ₂ Mo ₃ O ₁₂ . Materials Research Bulletin, 2013, 48, 2724-2729. | 2.7 | 60 |
| 126 | Nanoconfined ammonia borane in a flexible metal-organic framework Fe-MIL-53: clean hydrogen release with fast kinetics. Journal of Materials Chemistry A, 2013, 1, 4167. | 5.2 | 66 |

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|-----|---|-----|-----------|
| 127 | Tin clusters formed by fundamental units: a potential way to assemble tin nanowires. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 1831-1836. | 1.3 | 14 |
| 128 | MgH ₂ Dehydrogenation Thermodynamics: Nanostructuring and Transition Metal Doping. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10883-10891. | 1.5 | 62 |
| 129 | Novel methods to fabricate macroporous 3D carbon scaffolds and ordered surface mesopores on carbon filaments. <i>Journal of Porous Materials</i> , 2012, 19, 529-536. | 1.3 | 7 |
| 130 | Structure and Defect Chemistry of Low- and High-Temperature Phases of LiBH ₄ . <i>Journal of Physical Chemistry C</i> , 2012, 116, 13488-13496. | 1.5 | 25 |
| 131 | Threadlike Tin Clusters with High Thermal Stability Based on Fundamental Units. <i>Journal of Physical Chemistry C</i> , 2012, 116, 231-236. | 1.5 | 8 |
| 132 | Multi-hydride systems with enhanced hydrogen storage properties derived from Mg(BH ₄) ₂ and LiAlH ₄ . <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10733-10742. | 3.8 | 48 |
| 133 | Materials challenges for the development of solid sorbents for post-combustion carbon capture. <i>Journal of Materials Chemistry</i> , 2012, 22, 2815-2823. | 6.7 | 255 |
| 134 | Porous anodes with helical flow pathways in bioelectrochemical systems: The effects of fluid dynamics and operating regimes. <i>Journal of Power Sources</i> , 2012, 213, 382-390. | 4.0 | 49 |
| 135 | Structural, energetic and thermodynamic analyses of Ca(BH ₄) ₂ ·2NH ₃ from first principles calculations. <i>Journal of Solid State Chemistry</i> , 2012, 185, 206-212. | 1.4 | 10 |
| 136 | High inertness of W@Si ₁₂ cluster toward O ₂ molecule. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 1454-1459. | 0.9 | 6 |
| 137 | Calcium-Based Functionalization of Carbon Materials for CO ₂ Capture: A First-Principles Computational Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10990-10995. | 1.5 | 51 |
| 138 | Dehydrogenation mechanisms and thermodynamics of MNH ₂ BH ₃ (M = Li, Na) metal amidoboranes as predicted from first principles. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7649. | 1.3 | 41 |
| 139 | Processing of strong and highly conductive carbon foams as electrode. <i>Carbon</i> , 2011, 49, 3857-3864. | 5.4 | 51 |
| 140 | Effect of nitride additives on Li-N-H hydrogen storage system. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 7920-7926. | 3.8 | 24 |
| 141 | First-principles calculations on the role of Ni-doping in Cu clusters: From geometric and electronic structures to chemical activities towards CO ₂ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 4324-4330. | 0.9 | 24 |
| 142 | Partition of Er among the constituent phases and the yield phenomenon in a semi-continuously cast Mg-Zn-Zr alloy. <i>Scripta Materialia</i> , 2010, 63, 367-370. | 2.6 | 38 |
| 143 | Site density effect of Ni particles on hydrogen desorption of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2010, 35, 4534-4542. | 3.8 | 46 |
| 144 | First-principles study of the stability of calcium-decorated carbon nanostructures. <i>Physical Review B</i> , 2010, 82, . | 1.1 | 53 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 145 | CO ₂ Activation and Total Reduction on Titanium(0001) Surface. Journal of Physical Chemistry C, 2010, 114, 11456-11459. | 1.5 | 34 |
| 146 | Multinuclear Zinc Pentafluorobenzene Carboxylates: Synthesis, Characterization, and Hydrogen Storage Capability. Organometallics, 2010, 29, 6129-6132. | 1.1 | 24 |
| 147 | Advances in computational studies of energy materials. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 3379-3456. | 1.6 | 119 |
| 148 | Enhancement of H ₂ uptake via fluorination but not lithiation for Zn ₄ N ₈ and Zn ₄ N ₆ O type clusters. Chemical Communications, 2010, 46, 9055. | 2.2 | 11 |
| 149 | hcp metal nanoclusters with hexagonal A ²⁺ bilayer stacking stabilized by enhanced covalent bonding. Physical Review B, 2010, 82, . | 1.1 | 15 |
| 150 | Role of Ag-doping in small transition metal clusters from first-principles simulations. Journal of Chemical Physics, 2009, 131, 184301. | 1.2 | 13 |
| 151 | Synthesis of a porous oxide layer on a multifunctional biomedical titanium by micro-arc oxidation. Materials Science and Engineering C, 2009, 29, 1923-1934. | 3.8 | 47 |
| 152 | Microstructure and mechanical properties of a spark plasma sintered Ti-45Al-8.5Nb-0.2W-0.2B-0.1Y alloy. Intermetallics, 2009, 17, 840-846. | 1.8 | 52 |
| 153 | High-temperature oxidation behavior of TiAl-based alloys fabricated by spark plasma sintering. Journal of Alloys and Compounds, 2009, 478, 220-225. | 2.8 | 33 |
| 154 | Density functional theory simulations of complex hydride and carbon-based hydrogen storage materials. Chemical Society Reviews, 2009, 38, 211-225. | 18.7 | 107 |
| 155 | Hydrogen Absorption/Desorption Mechanism in Potassium Alanate (KAlH ₄) and Enhancement by TiCl ₃ Doping. Journal of Physical Chemistry C, 2009, 113, 6845-6851. | 1.5 | 48 |
| 156 | The Formation of Nanocrystallite Bone-Like Apatite on Chemically Treated Ti-24Nd-4Zr-7.9Sn Alloy. Journal of Nanoscience and Nanotechnology, 2009, 9, 1214-1217. | 0.9 | 2 |
| 157 | Fabrication of porous titanium scaffold materials by a fugitive filler method. Journal of Materials Science: Materials in Medicine, 2008, 19, 3489-3495. | 1.7 | 29 |
| 158 | Materials challenges for hydrogen storage. Journal of the European Ceramic Society, 2008, 28, 1467-1473. | 2.8 | 48 |
| 159 | Effects of different carbon materials on MgH ₂ decomposition. Carbon, 2008, 46, 126-137. | 5.4 | 158 |
| 160 | Multiscale simulation of onset plasticity during nanoindentation of Al (001) surface. Acta Materialia, 2008, 56, 4358-4368. | 3.8 | 57 |
| 161 | Effect of milling conditions on structural evolution and phase stability of [Ti(H ₂)+Al+Nb] powder mixtures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 474, 173-180. | 2.6 | 12 |
| 162 | High-Capacity Room-Temperature Hydrogen Storage in Carbon Nanotubes via Defect-Modulated Titanium Doping. Journal of Physical Chemistry C, 2008, 112, 17456-17464. | 1.5 | 71 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 163 | Effects of Carbon-Supported Nickel Catalysts on MgH ₂ Decomposition. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5984-5992. | 1.5 | 62 |
| 164 | No Cage, No Tube: Relative Stabilities of Nanostructures. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13200-13203. | 1.5 | 11 |
| 165 | Oxidation investigation of nickel nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5057. | 1.3 | 110 |
| 166 | Structure, optical properties and defects in nitride (III-V) nanoscale cage clusters. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1944. | 1.3 | 42 |
| 167 | Multiple-Timescale Photoreactivity of a Model Compound Related to the Active Site of [FeFe]-Hydrogenase. <i>Inorganic Chemistry</i> , 2008, 47, 7453-7455. | 1.9 | 41 |
| 168 | Size- and charge-dependent geometric and electronic structures of Bin ⁿ (Bin ⁿ) clusters (n=2-13) by first-principles simulations. <i>Journal of Chemical Physics</i> , 2008, 128, 194304. | 1.2 | 34 |
| 169 | First-principles local density approximation (generalized gradient approximation) +U study of catalytic CenOm clusters: U value differs from bulk. <i>Journal of Chemical Physics</i> , 2008, 128, 164718. | 1.2 | 21 |
| 170 | Hydrogen-induced magnetization and tunable hydrogen storage in graphitic structures. <i>Physical Review B</i> , 2008, 77, . | 1.1 | 33 |
| 171 | Effect of ultrasound on the heterogeneous nucleation of BaSO ₄ during reactive crystallization. <i>Journal of Applied Physics</i> , 2007, 101, 054907. | 1.1 | 18 |
| 172 | Initial interactions between water molecules and Ti-adsorbed carbon nanotubes. <i>Applied Physics Letters</i> , 2007, 91, 161906. | 1.5 | 11 |
| 173 | Coupled mesoscopic constitutive modelling and finite element simulation for plastic flow and microstructure of two-phase alloys. <i>Computational Materials Science</i> , 2007, 40, 201-212. | 1.4 | 4 |
| 174 | Desorption characteristics of mechanically and chemically modified LiNH ₂ and (LiNH ₂ +LiH). <i>Journal of Alloys and Compounds</i> , 2007, 432, 277-282. | 2.8 | 60 |
| 175 | Effect of composition on the microstructure and mechanical properties of Mg-Zn-Al alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 456, 43-51. | 2.6 | 104 |
| 176 | Hydrogen sorption in defective hexagonal BN sheets and BN nanotubes. <i>Physical Review B</i> , 2007, 76, . | 1.1 | 128 |
| 177 | Reaction Paths between LiNH ₂ and LiH with Effects of Nitrides. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12531-12536. | 1.2 | 54 |
| 178 | Structural and desorption characterisations of milled (MgH ₂ +Y,Ce)(MgH ₂ +Y,Ce) powder mixtures for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 2920-2925. | 3.8 | 45 |
| 179 | High-speed observation of the effects of ultrasound on liquid mixing and agglomerated crystal breakage processes. <i>Powder Technology</i> , 2007, 171, 146-153. | 2.1 | 46 |
| 180 | Electronic structure, stability and bonding of the Li-N-H hydrogen storage system. <i>Physical Review B</i> , 2006, 74, . | 1.1 | 68 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 181 | Transition-metal-doping-enhanced hydrogen storage in boron nitride systems. Applied Physics Letters, 2006, 89, 153104. | 1.5 | 75 |
| 182 | Solidification microstructural constituent and its crystallographic morphology of permanent-mould-cast Mg-Zn-Al alloys. Transactions of Nonferrous Metals Society of China, 2006, 16, 452-458. | 1.7 | 26 |
| 183 | A First-Principles Study of the Electronic Structure and Stability of a Lithium Aluminum Hydride for Hydrogen Storage. Journal of Physical Chemistry B, 2006, 110, 6906-6910. | 1.2 | 22 |
| 184 | Experimental and molecular dynamics studies of the thermal decomposition of a polyisobutylene binder. Acta Materialia, 2006, 54, 4803-4813. | 3.8 | 8 |
| 185 | The effect of ultrasound on the homogeneous nucleation of BaSO_4 . Journal of Colloid and Interface Science, 2006, 297, 190-198. | 1.9 | 79 |
| 186 | Interpretation of the ultrasonic effect on induction time during BaSO_4 homogeneous nucleation by a cluster coagulation model. Journal of Colloid and Interface Science, 2006, 297, 190-198. | 5.0 | 27 |
| 187 | Metastable MgH_2 phase predicted by first principles calculations. Applied Physics Letters, 2006, 89, 111911. | 1.5 | 14 |
| 188 | Effect of ultrasound on anti-solvent crystallization process. Journal of Crystal Growth, 2005, 273, 555-563. | 0.7 | 194 |
| 189 | Phase transformation during aging and resulting mechanical properties of two Ti-Nb-Ta-Zr alloys. Materials Science and Technology, 2005, 21, 678-686. | 0.8 | 20 |
| 190 | Influence of selected alloying elements on the stability of magnesium dihydride for hydrogen storage applications: a first-principles investigation. Physical Review B, 2004, 69, . | 1.1 | 185 |
| 191 | Numerical heat transfer modelling for wire casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 365, 311-317. | 2.6 | 18 |
| 192 | Mechanical alloying and electronic simulations of (MgH_2+M) systems (M=Al, Ti, Fe, Ni, Cu and Nb) for hydrogen storage. International Journal of Hydrogen Energy, 2004, 29, 73-80. | 3.8 | 376 |
| 193 | Influence of titanium on the hydrogen storage characteristics of magnesium hydride: a first principles investigation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 365, 73-79. | 2.6 | 48 |
| 194 | Kinetic modelling of binder removal in powder-based compacts. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 365, 129-135. | 2.6 | 4 |
| 195 | Microstructural evolution of a Ti-6Al-4V alloy during β -phase processing: experimental and simulative investigations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 365, 172-179. | 2.6 | 157 |
| 196 | Cellular automata simulation of microstructural evolution during dynamic recrystallization of an HY-100 steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 365, 180-185. | 2.6 | 95 |
| 197 | A 3D conjugate heat transfer model for continuous wire casting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 365, 318-324. | 2.6 | 18 |
| 198 | Fluid dynamic simulations of a slurry coating process on a continuous fibre. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 365, 341-348. | 2.6 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 199 | Wear characteristics of Ti-Nb-Ta-Zr and Ti-6Al-4V alloys for biomedical applications. <i>Wear</i> , 2004, 257, 869-876. | 1.5 | 138 |
| 200 | Study of thermal decomposition of a polyisobutylene binder by molecular dynamic simulations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 365, 122-128. | 2.6 | 3 |
| 201 | Artificial neural network modelling of hydrogen storage properties of Mg-based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 365, 219-227. | 2.6 | 38 |
| 202 | Finite element modelling of composite consolidation from fibre and wire lay-ups. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 365, 282-290. | 2.6 | 3 |
| 203 | Applications of reactive molecular dynamics to the study of the thermal decomposition of polymers and nanoscale structures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 365, 114-121. | 2.6 | 53 |
| 204 | Effect of carbon on hydrogen desorption and absorption of mechanically milled MgH ₂ . <i>Journal of Power Sources</i> , 2004, 129, 73-80. | 4.0 | 158 |
| 205 | Metal organic chemical vapour deposition (MOCVD) of bone mineral like carbonated hydroxyapatite coatings. Electronic supplementary information (ESI) available: experimental data. See http://www.rsc.org/suppdata/cc/b3/b312855p/ . <i>Chemical Communications</i> , 2004, , 696. | 2.2 | 47 |
| 206 | Modelling of binder removal from a (fibre+powder) composite pre-form. <i>Acta Materialia</i> , 2003, 51, 899-909. | 3.8 | 9 |
| 207 | Structural stability of mechanically alloyed (Mg+10Nb) and (MgH ₂ +10Nb) powder mixtures. <i>Journal of Alloys and Compounds</i> , 2003, 349, 217-223. | 2.8 | 56 |
| 208 | Direct mechanical synthesis and characterisation of Mg ₂ Fe(Cu)H ₆ . <i>Journal of Alloys and Compounds</i> , 2003, 356-357, 626-629. | 2.8 | 20 |
| 209 | Influence of High Energy Ball Milling on the Carbothermic Reduction of Ilmenite. <i>Materials Science Forum</i> , 2003, 437-438, 105-108. | 0.3 | 7 |
| 210 | Effects of Additional Rolling and Annealing on the Cube Texture in the High-Purity Aluminum Foils for Capacitors. <i>Materials Science Forum</i> , 2003, 437-438, 455-458. | 0.3 | 0 |
| 211 | Structural Stability and Dehydrogenation of (MgH ₂ +Al, Nb) Powder Mixtures during Mechanical Alloying. <i>Materials Transactions</i> , 2003, 44, 2356-2362. | 0.4 | 13 |
| 212 | Influence of interstitial elements on the bulk modulus and theoretical strength of α -titanium: a first-principles study. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002, 82, 1345-1359. | 0.8 | 2 |
| 213 | First Principles Estimation of Bulk Modulus and Theoretical Strength of Titanium Alloys. <i>Materials Transactions</i> , 2002, 43, 3028-3031. | 0.4 | 14 |
| 214 | Influence of interstitial elements on the bulk modulus and theoretical strength of α -titanium: A first-principles study. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002, 82, 1345-1359. | 0.8 | 5 |
| 215 | First principles studies of TiAl-based alloys. <i>Journal of Light Metals</i> , 2002, 2, 115-123. | 0.8 | 32 |
| 216 | Microstructure, electrochemical performance and gas-phase hydrogen storage property of Zr _{0.9} Ti _{0.1} [(Ni,V,Mn) _{0.95} Co _{0.05}] α laves phase alloys. <i>Journal of Alloys and Compounds</i> , 2002, 333, 184-189. | 2.8 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 217 | Comparative study of mechanical alloying of (Mg+Al) and (Mg+Al+Ni) mixtures for hydrogen storage. Journal of Alloys and Compounds, 2002, 336, 222-231. | 2.8 | 63 |
| 218 | Microstructural modelling of dynamic recrystallisation using an extended cellular automaton approach. Computational Materials Science, 2002, 23, 209-218. | 1.4 | 104 |
| 219 | First principles study of influence of alloying elements on TiAl: cleavage strength and deformability. Computational Materials Science, 2002, 23, 55-61. | 1.4 | 9 |
| 220 | Microstructural evolution of a Ti-6Al-4V alloy during thermomechanical processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 327, 233-245. | 2.6 | 358 |
| 221 | Characterisation of structural stability of (Ti(H ₂)+22Al+23Nb) powder mixtures during mechanical alloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 332, 210-222. | 2.6 | 19 |
| 222 | A diffusion-controlled kinetic model for binder burnout in a powder compact. Acta Materialia, 2002, 50, 1937-1950. | 3.8 | 39 |
| 223 | A first-principles study of the theoretical strength and bulk modulus of hcp metals. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2001, 81, 321-330. | 0.8 | 11 |
| 224 | Cost-Effective Manufacture of Particulate Reinforced Titanium Matrix Composites By A New In-situ Reaction Route. Materials Technology, 2001, 16, 230-233. | 1.5 | 2 |
| 225 | Reaction synthesis of TiB ₂ -TiC composites with enhanced toughness. Acta Materialia, 2001, 49, 1463-1470. | 3.8 | 190 |
| 226 | First principles study of site substitution of ternary elements in NiAl. Acta Materialia, 2001, 49, 1647-1654. | 3.8 | 103 |
| 227 | Coupled quantitative simulation of microstructural evolution and plastic flow during dynamic recrystallization. Acta Materialia, 2001, 49, 3163-3175. | 3.8 | 395 |
| 228 | A Novel Powder Coated Fibre Pre-processing Route to Metal Matrix Composites. Advanced Engineering Materials, 2001, 3, 223-226. | 1.6 | 7 |
| 229 | Mechanical Alloying of Fine Structured Ti-Al-Nb Aluminides Involving Ti-Hydride. Materials Science Forum, 2001, 360-362, 421-426. | 0.3 | 0 |
| 230 | A first-principles study of the theoretical strength and bulk modulus of hcp metals. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2001, 81, 321-330. | 0.8 | 0 |
| 231 | Development of a powder coated fibre pre-processing route for production of fibre reinforced composites. Materials Science and Technology, 2000, 16, 862-866. | 0.8 | 6 |
| 232 | Evidence of the existence an $\hat{\epsilon}/\hat{\epsilon}^2$ interface phase in a near- $\hat{\epsilon}$ titanium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 280, 182-186. | 2.6 | 8 |
| 233 | Co-enhanced SiO ₂ -BN ceramics for high-temperature dielectric applications. Journal of the European Ceramic Society, 2000, 20, 1923-1928. | 2.8 | 151 |
| 234 | Microstructural characterisation of electroless-nickel coatings on zirconia powder. Scripta Materialia, 2000, 43, 307-311. | 2.6 | 65 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 235 | Processing of in situ toughened b-w-c composites by reaction hot pressing of b4c and wc. Scripta Materialia, 2000, 43, 853-857. | 2.6 | 35 |
| 236 | Preparation of high porosity metal foams. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2000, 31, 1345-1352. | 1.0 | 78 |
| 237 | Novel polymer-metal based method for open cell metal foams production. Materials Science and Technology, 2000, 16, 776-780. | 0.8 | 18 |
| 238 | Kinetic modelling of binder burnout for optimisation of slurry-powder manufacturing process of Ti/SiC composites. Materials Science and Technology, 2000, 16, 843-847. | 0.8 | 6 |
| 239 | A first principles study of the influence of alloying elements on TiAl: site preference. Intermetallics, 2000, 8, 563-568. | 1.8 | 75 |
| 240 | First principles study of influence of alloying elements on TiAl: Lattice distortion. Journal of Materials Research, 1999, 14, 2824-2829. | 1.2 | 9 |
| 241 | Theoretical study of the effects of alloying elements on the strength and modulus of β -type bio-titanium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 260, 269-274. | 2.6 | 248 |
| 242 | Calculation of bulk modulus of titanium alloys by first principles electronic structure theory. Journal of Computer-Aided Materials Design, 1999, 6, 355-362. | 0.7 | 11 |
| 243 | Microstructure and properties of nippon fire-resistant steels. Journal of Materials Engineering and Performance, 1999, 8, 606-612. | 1.2 | 32 |
| 244 | Calculation of theoretical strengths and bulk moduli of bcc metals. Physical Review B, 1999, 59, 14220-14225. | 1.1 | 40 |
| 245 | Viable Routes to Large-scale Commercialisation of Silicon Carbide Fibre Titanium Matrix Composites. Materials Technology, 1999, 14, 133-138. | 1.5 | 8 |
| 246 | Electroless Plating for the Enhancement of Material Performance. Materials Technology, 1999, 14, 210-217. | 1.5 | 9 |
| 247 | Stabilisation of TiBx-Coated SiC Fibres by Nitridation. Scripta Materialia, 1998, 38, 1629-1634. | 2.6 | 4 |
| 248 | Slurry PM: lower cost for high performance MMCs. Metal Powder Report, 1998, 53, 18-21. | 0.3 | 0 |
| 249 | Towards cost effective manufacturing of Ti/SiC fibre composites and components. Materials Science and Technology, 1998, 14, 864-872. | 0.8 | 17 |
| 250 | Processing of Ti-SiC metal matrix composites by tape casting. Materials Science and Technology, 1998, 14, 1024-1028. | 0.8 | 5 |
| 251 | Processing of Ti-SiC metal matrix composites by tape casting. Materials Science and Technology, 1998, 14, 1024-1028. | 0.8 | 10 |
| 252 | Towards cost effective manufacturing of Ti/SiC fibre composites and components. Materials Science and Technology, 1998, 14, 864-872. | 0.8 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 253 | The kinetics and mechanism of interfacial reaction in sigma fibre-reinforced Ti MMCs. Composites Part A: Applied Science and Manufacturing, 1997, 28, 131-140. | 3.8 | 135 |
| 254 | Solid-state fabrication and interfaces of fibre reinforced metal matrix composites. Progress in Materials Science, 1995, 39, 411-495. | 16.0 | 83 |
| 255 | Theoretical model for solid-state consolidation of long-fibre reinforced metal-matrix composites. Acta Metallurgica Et Materialia, 1994, 42, 461-473. | 1.9 | 17 |
| 256 | The effect of temporary hydrogenation on the processing and interface of titanium composites. Composites, 1994, 25, 881-886. | 0.9 | 11 |
| 257 | Interface microstructures in Ti-based composites using TiB ₂ /C-coated and uncoated SiCf after short-term thermal exposure. Composites, 1994, 25, 887-890. | 0.9 | 17 |
| 258 | Analysis of interfacial defects in solid-state consolidated composites. Composites, 1994, 25, 563-569. | 0.9 | 7 |
| 259 | Chemistry effects on interface microstructure and reaction in titanium-based composites. Composites, 1994, 25, 630-636. | 0.9 | 11 |
| 260 | Interfaces in Ti ₃ Al composites reinforced with sigma SiC fibres. Scripta Metallurgica Et Materialia, 1994, 30, 89-94. | 1.0 | 16 |
| 261 | Fibre uniformity and cavitation during the consolidation of metal-matrix composite via fibre-mat and matrix-foil diffusion bonding. Acta Metallurgica Et Materialia, 1993, 41, 3257-3266. | 1.9 | 12 |
| 262 | Microstructural characterization in diffusion-bonded SiC/Ti-6Al-4V composites. Journal of Microscopy, 1993, 169, 269-277. | 0.8 | 18 |
| 263 | Comparison of interfaces in Ti composites reinforced with uncoated and TiB ₂ /C-coated SiC fibres. Journal of Microscopy, 1993, 169, 279-287. | 0.8 | 28 |
| 264 | Processing of titanium matrix composites with hydrogen as a temporary alloying element. Scripta Metallurgica Et Materialia, 1992, 27, 1695-1700. | 1.0 | 16 |
| 265 | Study of the effect of hydrogen on titanium alloy foils to be used as potential composite matrices. Scripta Metallurgica Et Materialia, 1992, 27, 1021-1026. | 1.0 | 12 |
| 266 | On the microstructure and thermomechanical processing of titanium alloy IMI685. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1992, 156, 63-76. | 2.6 | 13 |
| 267 | Effect of stress state on cavitation and hole growth in superplastic AA 7475 aluminium alloy. Materials Science and Technology, 1990, 6, 516-519. | 0.8 | 12 |
| 268 | Testing models for superplastic bulge forming of domes. Materials Science and Technology, 1990, 6, 510-515. | 0.8 | 17 |
| 269 | An experimental investigation of the superplastic forming behavior of a commercial al-bronze. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1990, 21, 2957-2966. | 1.4 | 2 |
| 270 | A microanalytical study of the apparent iron content of vanadium carbide precipitates in HSLA steel. Materials Characterization, 1990, 25, 17-36. | 1.9 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 271 | Modelling of superplastic bulge forming of domes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 114, 97-104. | 2.6 | 31 |
| 272 | Modelling of diffusion bonding of metals. Materials Science and Technology, 1987, 3, 945-953. | 0.8 | 72 |