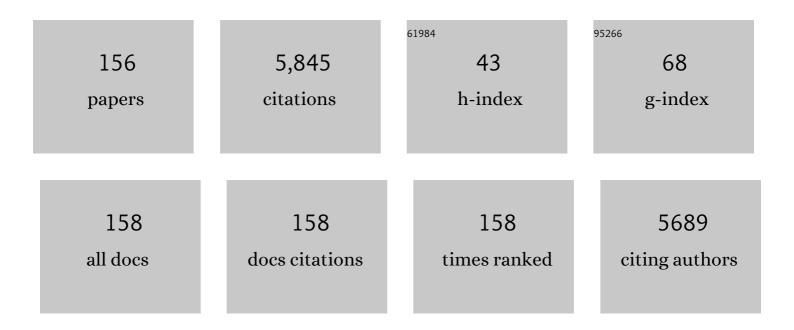
## Chang-An Wang

List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A review of fabrication strategies and applications of porous ceramics prepared by freeze-casting method. Ceramics International, 2016, 42, 2907-2925.  | 4.8  | 177       |
| 2  | An intermediate temperature garnet-type solid electrolyte-based molten lithium battery for grid energy storage. Nature Energy, 2018, 3, 732-738.  | 39.5 | 170       |
| 3  | Ceramics with Special Porous Structures Fabricated by Freezeâ€Gelcasting: Using tertâ€Butyl Alcohol as a<br>Template. Journal of the American Ceramic Society, 2007, 90, 3478-3484.   | 3.8  | 165       |
| 4  | A dopamine modified<br>Li <sub>6.4</sub> La <sub>3</sub> Zr <sub>1.4</sub> Ta <sub>0.6</sub> O <sub>12</sub> /PEO solid-state<br>electrolyte: enhanced thermal and electrochemical properties. Journal of Materials Chemistry A, 2019,<br>7, 16425-16436. | 10.3 | 162       |
| 5  | The 2021 battery technology roadmap. Journal Physics D: Applied Physics, 2021, 54, 183001.  | 2.8  | 158       |
| 6  | Control of pore channel size during freeze casting of porous YSZ ceramics with unidirectionally<br>aligned channels using different freezing temperatures. Journal of the European Ceramic Society,<br>2010, 30, 3389-3396.                               | 5.7  | 136       |
| 7  | Design and Preparation of MnO <sub>2</sub> /CeO <sub>2</sub> –MnO <sub>2</sub> Double-Shelled<br>Binary Oxide Hollow Spheres and Their Application in CO Oxidation. ACS Applied Materials &<br>Interfaces, 2016, 8, 8670-8677.                            | 8.0  | 128       |
| 8  | High lithium ion conduction in garnet-type Li6La3ZrTaO12. Electrochemistry Communications, 2011, 13, 1289-1292.   | 4.7  | 125       |
| 9  | Processing and Mechanical Properties of Zirconium Diboride-Based Ceramics Prepared by Spark Plasma<br>Sintering. Journal of the American Ceramic Society, 2007, 90, 1992-1997.  | 3.8  | 118       |
| 10 | High-Energy-Density Solid-Electrolyte-Based Liquid Li-S and Li-Se Batteries. Joule, 2020, 4, 262-274.   | 24.0 | 109       |
| 11 | A possible mechanism on synthesis of Ti3AlC2. Materials Science & Engineering A: Structural<br>Materials: Properties, Microstructure and Processing, 2003, 352, 333-339.  | 5.6  | 107       |
| 12 | Porous anorthite ceramics with ultra-low thermal conductivity. Journal of the European Ceramic Society, 2013, 33, 2573-2578.  | 5.7  | 107       |
| 13 | Porous yttria-stabilized zirconia ceramics with ultra-low thermal conductivity. Journal of Materials Science, 2010, 45, 3242-3246.  | 3.7  | 105       |
| 14 | Synthesis and mechanical properties of Ti3AlC2 by spark plasma sintering. Journal of Materials Science, 2003, 38, 3111-3115.  | 3.7  | 101       |
| 15 | Effect of starch addition on microstructure and properties of highly porous alumina ceramics.<br>Ceramics International, 2013, 39, 8833-8839.   | 4.8  | 100       |
| 16 | Excess lithium salt functions more than compensating for lithium loss when synthesizing<br>Li6.5La3Ta0.5Zr1.5O12 in alumina crucible. Journal of Power Sources, 2014, 260, 109-114.   | 7.8  | 100       |
| 17 | Polyacrylamide-clay nacre-like nanocomposites prepared by electrophoretic deposition. Composites Science and Technology, 2007, 67, 2770-2774.   | 7.8  | 98        |
| 18 | Designing pinecone-like and hierarchical manganese cobalt sulfides for advanced supercapacitor electrodes. Journal of Materials Chemistry A, 2018, 6, 12782-12793.  | 10.3 | 93        |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Li-Ion Conduction and Stability of Perovskite<br>Li <sub>3/8</sub> Sr <sub>7/16</sub> Hf <sub>1/4</sub> Ta <sub>3/4</sub> O <sub>3</sub> . ACS Applied<br>Materials & Interfaces, 2016, 8, 14552-14557.               | 8.0  | 89        |
| 20 | Effect of sintering temperature on compressive strength of porous yttria-stabilized zirconia ceramics. Ceramics International, 2010, 36, 1697-1701.   | 4.8  | 88        |
| 21 | Ceramics With Ultra-Low Density Fabricated by Gelcasting: An Unconventional View. Journal of the<br>American Ceramic Society, 2007, 90, 3424-3429.  | 3.8  | 84        |
| 22 | Preparation of Ti3AlC2 and Ti2AlC by self-propagating high-temperature synthesis. Journal of Materials<br>Science Letters, 2001, 20, 1971-1973.   | 0.5  | 81        |
| 23 | Strong metal-support interactions induced by an ultrafast laser. Nature Communications, 2021, 12, 6665.   | 12.8 | 80        |
| 24 | An efficient biomimetic process for fabrication of artificial nacre with ordered-nanostructure.<br>Materials Science and Engineering C, 2008, 28, 218-222.  | 7.3  | 79        |
| 25 | Carbonâ€based flexible selfâ€supporting cathode for lithiumâ€sulfur batteries: Progress and perspective. ,<br>2021, 3, 271-302.   |      | 77        |
| 26 | A novel simple method to stably synthesize Ti3AlC2 powder with high purity. Materials Science &<br>Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 428, 54-58.                  | 5.6  | 74        |
| 27 | Mullite whisker reinforced porous anorthite ceramics with low thermal conductivity and high strength. Journal of the European Ceramic Society, 2016, 36, 761-765.   | 5.7  | 73        |
| 28 | Effects of mono-dispersed PMMA micro-balls as pore-forming agent on the properties of porous YSZ ceramics. Journal of the European Ceramic Society, 2013, 33, 1859-1865.  | 5.7  | 70        |
| 29 | A novel way to fabricate highly porous fibrous YSZ ceramics with improved thermal and mechanical properties. Journal of the European Ceramic Society, 2012, 32, 2213-2218.  | 5.7  | 69        |
| 30 | Nano-network MnO2/polyaniline composites with enhanced electrochemical properties for supercapacitors. Materials and Design, 2016, 97, 512-518.   | 7.0  | 66        |
| 31 | A soft non-porous separator and its effectiveness in stabilizing Li metal anodes cycling at 10 mA<br>cm <sup>â^2</sup> observed in situ in a capillary cell. Journal of Materials Chemistry A, 2017, 5,<br>4300-4307. | 10.3 | 66        |
| 32 | A novel way to fabricate tubular porous mullite membrane supports by TBA-based freezing casting method. Journal of the European Ceramic Society, 2013, 33, 3249-3256.   | 5.7  | 65        |
| 33 | Impregnation of porous mullite with Na2SO4 phase change material for thermal energy storage. Solar<br>Energy Materials and Solar Cells, 2015, 134, 268-274.   | 6.2  | 64        |
| 34 | Effects of pore size and orientation on dielectric and piezoelectric properties of 1–3 type porous PZT ceramics. Journal of the European Ceramic Society, 2011, 31, 605-609.  | 5.7  | 63        |
| 35 | Hierarchically porous Co3O4 hollow spheres with tunable pore structure and enhanced catalytic activity. Chemical Communications, 2013, 49, 7427.  | 4.1  | 59        |
| 36 | Control of Composition and Structure in Laminated Silicon Nitride/Boron Nitride Composites.<br>Journal of the American Ceramic Society, 2002, 85, 2457-2461.  | 3.8  | 55        |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | Effects of sintering behavior on microstructure and piezoelectric properties of porous PZT ceramics.<br>Ceramics International, 2010, 36, 549-554.  | 4.8  | 54        |
| 38 | Enhanced Performance of<br>Li <sub>6.4</sub> La <sub>3</sub> Zr <sub>1.4</sub> Ta <sub>0.6</sub> O <sub>12</sub> Solid Electrolyte<br>by the Regulation of Grain and Grain Boundary Phases. ACS Applied Materials & Interfaces, 2020, 12,<br>56118-56125. | 8.0  | 54        |
| 39 | Porous yttriaâ€&tabilized Zirconia Ceramics Fabricated by Nonaqueousâ€Based Gelcasting Process with<br><scp>PMMA</scp> Microsphere as Poreâ€Forming Agent. Journal of the American Ceramic Society, 2013,<br>96, 266-271.                                 | 3.8  | 51        |
| 40 | Quantitative phase analysis in the Ti–Al–C ternary system by X-ray diffraction. Powder Diffraction, 2005, 20, 218-223.  | 0.2  | 49        |
| 41 | A high-performance potassium metal battery using safe ionic liquid electrolyte. Proceedings of the<br>National Academy of Sciences of the United States of America, 2020, 117, 27847-27853.   | 7.1  | 49        |
| 42 | Piezoelectric Properties of the 1-3 Type Porous Lead Zirconate Titanate Ceramics. Journal of the American Ceramic Society, 2011, 94, 1794-1799.   | 3.8  | 48        |
| 43 | Enhanced mechanical strength and ionic conductivity of LLZO solid electrolytes by oscillatory pressure sintering. Ceramics International, 2019, 45, 18115-18118.  | 4.8  | 46        |
| 44 | Porous PZT Ceramics with High Hydrostatic Figure of Merit and Low Acoustic Impedance by TBAâ€Based<br>Gelâ€Casting Process. Journal of the American Ceramic Society, 2010, 93, 1427-1431.   | 3.8  | 45        |
| 45 | Control of pore size and wall thickness of 3-1 type porous PZT ceramics during freeze-casting process.<br>Materials and Design, 2016, 91, 242-247.  | 7.0  | 43        |
| 46 | Solvent-Free Process for Blended PVDF-HFP/PEO and LLZTO Composite Solid Electrolytes with<br>Enhanced Mechanical and Electrochemical Properties for Lithium Metal Batteries. ACS Applied Energy<br>Materials, 2021, 4, 11802-11812.                       | 5.1  | 43        |
| 47 | Microstructure and Electrical Properties of Porous PZT Ceramics Fabricated by Different Methods.<br>Journal of the American Ceramic Society, 2010, 93, 1984-1990.   | 3.8  | 39        |
| 48 | Microstructure and properties of porous Si3N4 ceramics by gelcasting-self-propagating high-temperature synthesis (SHS). Journal of Advanced Ceramics, 2022, 11, 172-183.  | 17.4 | 39        |
| 49 | Fabrication of porous alumina–zirconia ceramics by gel-casting and infiltration methods. Materials & Design, 2014, 63, 1-5.   | 5.1  | 36        |
| 50 | Nanosecond Laser Cleaning Method to Reduce the Surface Inert Layer and Activate the Garnet<br>Electrolyte for a Solid-State Li Metal Battery. ACS Applied Materials & Interfaces, 2021, 13,<br>37082-37090.   | 8.0  | 35        |
| 51 | Special assembly of laminated nanocomposite that mimics nacre. Materials Science and Engineering C, 2008, 28, 1031-1037.  | 7.3  | 34        |
| 52 | Effect of two-step sintering on micro-honeycomb BaTiO3 ceramics prepared by freeze-casting process.<br>Journal of the European Ceramic Society, 2016, 36, 2647-2652.  | 5.7  | 34        |
| 53 | Smart tuning of 3D ordered electrocatalysts for enhanced oxygen reduction reaction. Applied Catalysis B: Environmental, 2017, 219, 640-644.   | 20.2 | 33        |
| 54 | Al2O3-fiber-reinforced porous YSZ ceramics with high mechanical strength. Ceramics International, 2014, 40, 10329-10335.  | 4.8  | 32        |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 55 | Blending Poly(ethylene oxide) and Li6.4La3Zr1.4Ta0.6O12 by Haake Rheomixer without any solvent: A<br>low-cost manufacture method for mass production of composite polymer electrolyte. Journal of<br>Power Sources, 2020, 451, 227797.  | 7.8  | 32        |
| 56 | Enhanced piezoelectric property of porous lead zirconate titanate ceramics with one dimensional ordered pore structure. Journal of Applied Physics, 2010, 108, .  | 2.5  | 31        |
| 57 | Porous yttria-stabilized zirconia ceramics with ultra-low thermal conductivity. Part II: temperature dependence of thermophysical properties. Journal of Materials Science, 2011, 46, 623-628.  | 3.7  | 31        |
| 58 | Garnet-type Li6.4La3Zr1.4Ta0.6O12 thin sheet: Fabrication and application in lithium–hydrogen peroxide semi-fuel cell. Electrochemistry Communications, 2014, 48, 147-150.  | 4.7  | 31        |
| 59 | Extremely facile synthesis of manganese dioxide-polyaniline nano-reticulation with enhanced electrochemical properties. Journal of Alloys and Compounds, 2016, 677, 281-287.  | 5.5  | 31        |
| 60 | Brownian-snowball-mechanism-induced hierarchical cobalt sulfide for supercapacitors. Journal of Power Sources, 2019, 412, 321-330.  | 7.8  | 31        |
| 61 | Microstructure and mechanical properties of high entropy CrMnFeCoNi alloy processed by<br>electopulsing-assisted ultrasonic surface rolling. Materials Science & Engineering A: Structural<br>Materials: Properties, Microstructure and Processing, 2020, 795, 140004.                    | 5.6  | 31        |
| 62 | Piezoelectric Properties of a Pioneering 3â€1 Type <scp>PZT</scp> /Epoxy Composites Based on<br>Freeze asting Processing. Journal of the American Ceramic Society, 2014, 97, 1511-1516.   | 3.8  | 30        |
| 63 | In situ preparation of a binder-free nano-cotton-like CuO–Cu integrated anode on a current collector<br>by laser ablation oxidation for long cycle life Li-ion batteries. Journal of Materials Chemistry A, 2017,<br>5, 19781-19789.  | 10.3 | 30        |
| 64 | Flower-like Hollow MoSe <sub>2</sub> Nanospheres as Efficient Earth-Abundant Electrocatalysts for<br>Nitrogen Reduction Reaction under Ambient Conditions. Inorganic Chemistry, 2020, 59, 12941-12946.  | 4.0  | 28        |
| 65 | Porous YSZ ceramics with unidirectionally aligned pore channel structure: Lowering thermal conductivity by silica aerogels impregnation. Journal of the European Ceramic Society, 2011, 31, 2915-2922.  | 5.7  | 27        |
| 66 | Improved Heat Insulation and Mechanical Properties of Highly Porous <scp>YSZ</scp> Ceramics After Silica Aerogels Impregnation. Journal of the American Ceramic Society, 2013, 96, 3223-3227.   | 3.8  | 27        |
| 67 | Design and synthesis of hierarchically porous MnO2/carbon hybrids for high performance electrochemical capacitors. Journal of Colloid and Interface Science, 2015, 438, 61-67.  | 9.4  | 27        |
| 68 | Sintering behavior of garnetâ€type<br>Li <sub>6.4</sub> La <sub>3</sub> Zr <sub>1.4</sub> Ta <sub>0.6</sub> O <sub>12</sub> in<br>Li <sub>2</sub> CO <sub>3</sub> atmosphere and its electrochemical property. International Journal<br>of Applied Ceramic Technology, 2017, 14, 921-927. | 2.1  | 27        |
| 69 | Near net size sintering of porous cordierite ceramics with excellent properties. Journal of Alloys and Compounds, 2020, 826, 154121.  | 5.5  | 26        |
| 70 | Poly(amic acid)–clay nacrelike composites prepared by electrophoretic deposition. Journal of<br>Materials Research, 2008, 23, 1706-1712.  | 2.6  | 25        |
| 71 | Effect of Heating Rate on Spark Plasma Sintering of a Nanosized β-Si3N4-Based Powder. Journal of the<br>American Ceramic Society, 2011, 94, 1182-1190.  | 3.8  | 25        |
| 72 | Fabrication and characterization of ceramic coatings with alumina–silica sol-incorporated α-alumina powder coated on woven quartz fiber fabrics. Ceramics International, 2013, 39, 6041-6050.   | 4.8  | 25        |

| #  | Article   | IF                | CITATIONS        |
|----|---|-------------------|------------------|
| 73 | An integrated solvent-free modification and composite process of Li6.4La3Zr1.4Ta0.6O12/Poly(ethylene) Tj ETQq2<br>2021, 492, 229672.  | l 1 0.7843<br>7.8 | 314 rgBT /<br>25 |
| 74 | Excellent Li/Garnet Interface Wettability Achieved by Porous Hard Carbon Layer for Solid State Li<br>Metal Battery. Small, 2022, 18, e2106142.  | 10.0              | 25               |
| 75 | Preparation and characterization of ZrB2-SiC ultra-high temperature ceramics by microwave sintering. Frontiers of Materials Science in China, 2010, 4, 276-280.   | 0.5               | 24               |
| 76 | Preparation and characterization of monodispersed spherical Fe2O3@SiO2 reddish pigments with core–shell structure. Journal of Advanced Ceramics, 2019, 8, 39-46.  | 17.4              | 24               |
| 77 | Dual interface layers for solid-state Li metal battery with low interfacial resistance and small polarization based on garnet electrolyte. Electrochimica Acta, 2020, 330, 135352.  | 5.2               | 24               |
| 78 | Influence of Conductive Nanoâ€TiC on Microstructural Evolution of<br>Si <sub>3</sub> N <sub>4</sub> â€Based Nanocomposites in Spark Plasma Sintering. Journal of the<br>American Ceramic Society, 2011, 94, 959-967.                      | 3.8               | 22               |
| 79 | Facile synthesis of tremella-like MnO2 and its application as supercapacitor electrodes. Frontiers of<br>Materials Science, 2015, 9, 234-240.   | 2.2               | 22               |
| 80 | In-situ synthesis and properties of porous cordierite ceramics with adjustable pore structure.<br>Ceramics International, 2020, 46, 14808-14815.  | 4.8               | 22               |
| 81 | Seed assisted in-situ synthesis of porous anorthite/mullite whisker ceramics by foam-freeze casting.<br>Ceramics International, 2021, 47, 11193-11201.  | 4.8               | 22               |
| 82 | Influence of sintering additives on Li + conductivity and electrochemical property of perovskite-type<br>Li 3/8 Sr 7/16 Hf 1/4 Ta 3/4 O 3. Electrochimica Acta, 2017, 234, 1-6.   | 5.2               | 21               |
| 83 | Synthesis of bambooâ€like SiC whiskers from waste silica fume. Crystal Research and Technology, 2014,<br>49, 290-297.   | 1.3               | 20               |
| 84 | YSZ fiber-reinforced porous YSZ ceramics with lowered thermal conductivity: Influence of the sintering temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 600, 76-81. | 5.6               | 20               |
| 85 | Multi-Enhanced-Phonon Scattering Modes in Ln-Me-A Sites co-substituted LnMeA11O19 Ceramics.<br>Scientific Reports, 2014, 4, 6823.   | 3.3               | 20               |
| 86 | Synthesis and growth of anorthite crystal during in situ preparation of porous anorthite ceramics by foamâ€gelcasting. International Journal of Applied Ceramic Technology, 2017, 14, 957-962.  | 2.1               | 20               |
| 87 | Li-ion conductivity and stability of hot-pressed LiTa2PO8 solid electrolyte for all-solid-state batteries.<br>Journal of Materials Science, 2021, 56, 2425-2434.  | 3.7               | 20               |
| 88 | Constructing the lithium polymeric salt interfacial phase in composite solid-state electrolytes for enhancing cycle performance of lithium metal batteries. Chemical Engineering Journal, 2022, 442, 136154.                              | 12.7              | 20               |
| 89 | Synthesis of aluminum-doped mesoporous zirconia with improved thermal stability. Microporous and Mesoporous Materials, 2014, 186, 1-6.  | 4.4               | 19               |
| 90 | A study on the orientation relationship between Ti3SiC2 and TiC grains. Materials Letters, 2002, 57, 106-109.   | 2.6               | 18               |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 91  | Simple synthesis of a double-shell hollow structured MnO <sub>2</sub> @TiO <sub>2</sub> composite as an anode material for lithium ion batteries. RSC Advances, 2017, 7, 46263-46270.  | 3.6  | 18        |
| 92  | Molten Lithium-Brass/Zinc Chloride System as High-Performance and Low-Cost Battery. Matter, 2020, 3, 1714-1724.  | 10.0 | 17        |
| 93  | Synthesis of TiO2 hollow spheres with tunable pore structure and enhanced photocatalytic activity.<br>Ceramics International, 2015, 41, 14615-14620.   | 4.8  | 16        |
| 94  | Enhanced antiâ€deliquescent property and ultralow thermal conductivity of magnetoplumbiteâ€type<br>LnMeAl <sub>11</sub> O <sub>19</sub> materials for thermal barrier coating. Journal of the American<br>Ceramic Society, 2018, 101, 1095-1104. | 3.8  | 16        |
| 95  | Improved Resistance to Damage of Silicon Carbideâ€Whiskerâ€Reinforced Silicon Nitrideâ€Matrix<br>Composites by Whiskerâ€Oriented Alignment. Journal of the American Ceramic Society, 2001, 84, 161-164.  | 3.8  | 15        |
| 96  | Synthesis and magnetoelectric effect of composites with CoFe2O4-epoxy embedded in 3–1 type porous PZT ceramics. Ceramics International, 2015, 41, 11080-11085.   | 4.8  | 15        |
| 97  | Facile synthesis of well-dispersed CeO <sub>2</sub> –CuO <sub>x</sub> composite hollow spheres with superior catalytic activity for CO oxidation. RSC Advances, 2015, 5, 95133-95139.  | 3.6  | 15        |
| 98  | Manganous-Manganic Oxide@Carbon Core-Shell Nanorods for Supercapacitors with High Cycle<br>Retention. ECS Journal of Solid State Science and Technology, 2016, 5, M5-M11.  | 1.8  | 15        |
| 99  | Synthesis and chromatic properties of zircon encapsulated ceramic black pigment with carbon sphere as carbon source. Journal of the European Ceramic Society, 2018, 38, 2218-2227.   | 5.7  | 15        |
| 100 | The rational design of sandwich-like MnO <sub>2</sub> –Pd–CeO <sub>2</sub> hollow spheres with enhanced activity and stability for CO oxidation. Nanoscale, 2019, 11, 6776-6783.   | 5.6  | 15        |
| 101 | Facile synthesis of multi-shelled MnO2–Co3O4 hollow spheres with superior catalytic activity for CO oxidation. Ceramics International, 2021, 47, 18411-18416.  | 4.8  | 15        |
| 102 | Preparation and mechanical properties of ZrB2-based ceramics using MoSi2 as sintering aids. Frontiers of Materials Science in China, 2010, 4, 271-275.   | 0.5  | 14        |
| 103 | Grain Orientation and Domain Configuration in 3â€1 Type Porous <scp>PZT</scp> Ceramics with<br>Ultrahigh Piezoelectric Properties. Journal of the American Ceramic Society, 2015, 98, 2700-2702.   | 3.8  | 14        |
| 104 | MoS2/CoS2 composites composed of CoS2 octahedrons and MoS2 nano-flowers for supercapacitor electrode materials. Frontiers of Materials Science, 2018, 12, 354-360.   | 2.2  | 14        |
| 105 | Hollow-grained "Voronoi foam―ceramics with high strength and thermal superinsulation up to<br>1400†°C. Materials Today, 2021, 46, 35-43.   | 14.2 | 14        |
| 106 | Preparation of acrylic anodic electrophoretic resin/clay nanocomposite films by water-based electrodeposition. Composites Science and Technology, 2008, 68, 880-887.   | 7.8  | 13        |
| 107 | Microstructure and properties of porous anorthite/mullite whiskers ceramics with high porosity.<br>International Journal of Applied Ceramic Technology, 2020, 17, 2104-2113.   | 2.1  | 13        |
| 108 | Effects of Mullite Content on the Properties and Microstructure of Porous Anorthite/Mullite<br>Composite Ceramics. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2011, 26, 1095-1100.  | 1.3  | 13        |

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|-----|--|------|-----------|
| 109 | A new binder-free and conductive-additive-free TiO2/WO3-W integrative anode material produced by laser ablation. Journal of Power Sources, 2018, 378, 362-368.   | 7.8  | 12        |
| 110 | A monocrystal Fe <sub>3</sub> O <sub>4</sub> @ultrathin N-doped carbon core/shell structure: from magnetotactic bacteria to Li storage. Journal of Materials Chemistry A, 2019, 7, 20899-20904.                      | 10.3 | 12        |
| 111 | High Li+-conductive perovskite Li3/8Sr7/16Ta3/4Zr1/4O3 electrolyte prepared by hot-pressing for all-solid-state Li-ion batteries. Solid State Ionics, 2019, 338, 1-4.  | 2.7  | 12        |
| 112 | Preparation of near net size porous alumina alcium aluminate ceramics by gelcastingâ€poreâ€forming<br>agent processs. Journal of the American Ceramic Society, 2020, 103, 4602-4610.                                 | 3.8  | 12        |
| 113 | Effect of YSZ fiber addition on microstructure and properties of porous YSZ ceramics. Journal of Materials Science, 2012, 47, 6326-6332.   | 3.7  | 11        |
| 114 | Oxidation Behavior of SiC Plateletâ€Reinforced ZrB <sub>2</sub> Ceramic Matrix Composites.<br>International Journal of Applied Ceramic Technology, 2012, 9, 178-185.   | 2.1  | 11        |
| 115 | Facile synthesis and characterization of MnO2 nanomaterials as supercapacitor electrode materials.<br>Journal of Materials Science: Materials in Electronics, 2016, 27, 5533-5542.                                   | 2.2  | 11        |
| 116 | Facile synthesis of well-defined CeO2 hollow spheres with a tunable pore structure. Ceramics<br>International, 2016, 42, 6088-6093.  | 4.8  | 11        |
| 117 | Carbon encapsulated Fe <sub>3</sub> O <sub>4</sub> nanospheres with high electrochemical performance as anode materials for Liâ€ion battery. International Journal of Applied Ceramic Technology, 2017, 14, 938-947. | 2.1  | 11        |
| 118 | In Situ Electrode Stress Monitoring: An Effective Approach to Study the Electrochemical Behavior of<br>a Lithium Metal Anode. ACS Applied Energy Materials, 2021, 4, 3993-4001.                                      | 5.1  | 11        |
| 119 | Complex Impedance Analysis on the Orientation Effect of Whiskers in Oriented Silicon Carbide<br>Whisker/Silicon Nitride Composites. Journal of the American Ceramic Society, 2000, 83, 2689-2692.                    | 3.8  | 10        |
| 120 | Fabrication of porous silver/titania composite hollow spheres with enhanced photocatalytic performance. Materials Chemistry and Physics, 2015, 149-150, 1-6.   | 4.0  | 10        |
| 121 | Correlation between the photocatalysis and growth mechanism of SnO <sub>2</sub> nanocrystals.<br>Journal Physics D: Applied Physics, 2020, 53, 154005.   | 2.8  | 10        |
| 122 | Improved sinterability of SiC(w)/Si3N4 composites by whisker-oriented alignment. Materials Science<br>& Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 390,<br>319-325.       | 5.6  | 9         |
| 123 | Formation of molybdenum–cobalt sulfide by one-step hydrothermal reaction for high-performance supercapacitors. Journal of Materials Science: Materials in Electronics, 2018, 29, 13703-13708.                        | 2.2  | 9         |
| 124 | Highly elastic and low resistance deformable current collectors for safe and high-performance silicon and metallic lithium anodes. Journal of Power Sources, 2021, 511, 230418.                                      | 7.8  | 9         |
| 125 | Preparation and characteristics of highly porous BN-Si3N4 composite ceramics by combustion synthesis. Journal of the European Ceramic Society, 2022, 42, 4835-4845.  | 5.7  | 9         |
| 126 | Indentation Deformation and Microcracking in<br>βâ€ <scp><scp>Si</scp></scp> <sub>3</sub> <scp><scp>N</scp>4â€Based Nanoceramic.<br/>Journal of the American Ceramic Society, 2012, 95, 1421-1428.</scp>             | 3.8  | 8         |

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 127 | Numerical calculations of effective thermal conductivity of porous ceramics by image-based finite element method. Frontiers of Materials Science, 2012, 6, 79-86.  | 2.2 | 8         |
| 128 | Microstructure and Highâ€ŧemperature Oxidation Behavior of<br><scp><scp>Ti</scp></scp> <scp>Xi/scp&gt;</scp> &scp>AlC <sub>2</sub> / <scp><scp>W</scp></scp><br>Composites. Journal of the American Ceramic Society, 2013, 96, 584-591.                  | 3.8 | 8         |
| 129 | Honeycomb-alumina supported garnet membrane: Composite electrolyte with low resistance and high strength for lithium metal batteries. Journal of Power Sources, 2015, 281, 399-403.  | 7.8 | 8         |
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