

# Zhengyi Fu

## List of Publications by Year in descending order

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103  
papers

2,043  
citations

257450

24  
h-index

302126

39  
g-index

103  
all docs

103  
docs citations

103  
times ranked

1641  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Bio-inspired high-efficiency photosystem by synergistic effects of core-shell structured Au@CdS nanoparticles and their engineered location on {001} facets of SrTiO <sub>3</sub> nanocrystals. <i>Journal of Materials Science and Technology</i> , 2023, 136, 159-168. | 10.7 | 2         |
| 2  | Novel transparent ZnO-3Al <sub>2</sub> O <sub>3</sub> ceramics prepared by reactive hot isostatic pressing. <i>Journal of the European Ceramic Society</i> , 2022, 42, 724-728.  | 5.7  | 2         |
| 3  | Investigation of the structural characteristics, dielectric properties, and infrared reflectivity spectra of AlON transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2022, 42, 1362-1369.  | 5.7  | 6         |
| 4  | Enhanced Mechanical Properties and Oxidation Resistance of Zirconium Diboride Ceramics via Grain Refining and Dislocation Regulation. <i>Advanced Science</i> , 2022, 9, e2104532.   | 11.2 | 10        |
| 5  | Compositional tailoring effect on crystal structure, mechanical and thermal properties of $\hat{1}^3$ -AlON transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2022, 42, 2983-2993.  | 5.7  | 8         |
| 6  | All-vacuum deposited perovskite solar cells with glycine modified NiO hole-transport layers. <i>RSC Advances</i> , 2022, 12, 10863-10869.  | 3.6  | 7         |
| 7  | Room-temperature growth of fluorapatite/CaCO <sub>3</sub> heterogeneous structured composites inspired by human tooth. <i>RSC Advances</i> , 2022, 12, 11084-11089.  | 3.6  | 0         |
| 8  | Elasticity of Nonstoichiometric Alumina-Rich Spinel Determined by Bond Valence Theory and Brillouin Scattering. <i>Inorganic Chemistry</i> , 2022, 61, 4743-4751.  | 4.0  | 0         |
| 9  | Mineralization generates megapascal contractile stresses in collagen fibrils. <i>Science</i> , 2022, 376, 188-192.   | 12.6 | 70        |
| 10 | Polyvinyl Alcohol/Graphene Oxide Conductive Hydrogels via the Synergy of Freezing and Salting Out for Strain Sensors. <i>Sensors</i> , 2022, 22, 3015.   | 3.8  | 27        |
| 11 | Highly transparent MgAl <sub>0.5</sub> Ga <sub>1.5</sub> O <sub>4</sub> ceramic for overcoming the trade-off between infrared transmittance and mechanical properties. <i>Scripta Materialia</i> , 2022, 216, 114756.  | 5.2  | 2         |
| 12 | Nanocage Ferritin Reinforced Polyacrylamide Hydrogel for Wearable Flexible Strain Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 21278-21286.  | 8.0  | 30        |
| 13 | Bioinspired cellulose-integrated MXene-based hydrogels for multifunctional sensing and electromagnetic interference shielding. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 495-506.  | 8.0  | 36        |
| 14 | Crystal structure and luminescence mechanism of novel Fe <sup>3+</sup> -doped Mg <sub>0.752</sub> Al <sub>2.165</sub> O <sub>4</sub> deep red-emitting phosphors. <i>Journal of the American Ceramic Society</i> , 2022, 105, 5783-5792.                                 | 3.8  | 7         |
| 15 | Multiple crystallization pathways of amorphous calcium carbonate in the presence of poly(aspartic) acid. <i>Journal of Materials Chemistry C</i> , 2022, 10, 10784-10795.  | 2.6  | 5         |
| 16 | Highly efficient synthesis of boron nitride nanotubes by catalytic chemical vapor deposition of boron/nickel containing precursors. <i>Journal of Materials Chemistry C</i> , 2022, 8, 1199-1204.  | 5.7  | 5         |
| 17 | Bioteploting synthesis of organized structures inspired by biological processes. <i>Giant</i> , 2022, 11, 100108.  | 5.1  | 6         |
| 18 | Mechanically Reinforced Artificial Enamel by Mg <sup>2+</sup> -Induced Amorphous Intergranular Phases. <i>ACS Nano</i> , 2022, 16, 10422-10430.  | 14.6 | 8         |

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|----|--|------|-----------|
| 19 | Densification mechanism and microstructure characteristics of nano- and micro- crystalline alumina by high-pressure and low temperature sintering. <i>Journal of the European Ceramic Society</i> , 2021, 41, 635-645.   | 5.7  | 33        |
| 20 | Bioprocess-inspired preparation of silica with varied morphologies and potential in lithium storage. <i>Journal of Materials Science and Technology</i> , 2021, 72, 61-68.   | 10.7 | 7         |
| 21 | Investigation on composition-dependent properties of $Mg_{5-x}Al_{23-x}O_{27+5N_5}$ (0 ≤ x ≤ 1): Part I. optical properties via first-principles calculations. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1543-1549.                                       | 5.7  | 4         |
| 22 | Bioprocess-inspired synthesis of multilayered chitosan/ $CaCO_3$ composites with nacre-like structures and high mechanical properties. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5691-5697.   | 5.8  | 3         |
| 23 | Mineralization of calcium phosphate induced by a silk fibroin film under different biological conditions. <i>RSC Advances</i> , 2021, 11, 18590-18596.   | 3.6  | 2         |
| 24 | <i>Escherichia coli</i> templated iron oxide biomineralization under oscillation. <i>RSC Advances</i> , 2021, 11, 15010-15016.   | 3.6  | 2         |
| 25 | Theoretical study on composition-dependent properties of $ZnO \cdot n Al_2O_3$ spinels. Part I: Optical and dielectric. <i>Journal of the American Ceramic Society</i> , 2021, 104, 5099-5109.   | 3.8  | 5         |
| 26 | Bioprocess-Inspired Room-Temperature Synthesis of Enamel-like Fluorapatite/Polymer Nanocomposites Controlled by Magnesium Ions. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 25260-25269.   | 8.0  | 15        |
| 27 | Bioprocess-inspired Fabrication of Lead Iodide Coexisting with Crystalline Nanosheet and Amorphous Nanorod for Perovskite Solar Cells. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2021, 36, 358-363.                                       | 1.0  | 0         |
| 28 | A prediction model of thermal expansion coefficient for cubic inorganic crystals by the bond valence model. <i>Journal of Solid State Chemistry</i> , 2021, 299, 122111.   | 2.9  | 13        |
| 29 | Sintering and densification mechanisms of tantalum carbide ceramics. <i>Journal of the European Ceramic Society</i> , 2021, 41, 7469-7477.   | 5.7  | 15        |
| 30 | Theoretical study on composition-dependent properties of $ZnO \cdot n Al_2O_3$ spinels. Part II: Mechanical and thermophysical. <i>Journal of the American Ceramic Society</i> , 2021, 104, 6455-6466.   | 3.8  | 10        |
| 31 | A new quaternary $Li_{0.19}Al_{2.72}O_{3.64}N_{0.36}$ transparent ceramic with high hardness. <i>Scripta Materialia</i> , 2021, 199, 113837.   | 5.2  | 6         |
| 32 | Effect of nitrogen content on optical properties of transparent $\hat{I}^3$ -ALON polycrystalline ceramics. <i>Journal of the European Ceramic Society</i> , 2021, 41, 4319-4326.  | 5.7  | 15        |
| 33 | Oriented Strontium Carbonate Nanocrystals within Collagen Films for Flexible Piezoelectric Sensors. <i>Advanced Functional Materials</i> , 2021, 31, 2105806.  | 14.9 | 8         |
| 34 | Investigation on composition-dependent properties of $Mg_{5-x}Al_{23-x}O_{27+5N_5}$ (0 ≤ x ≤ 1): Part II. Mechanical properties via first-principles calculations combined with bond valence models. <i>Journal of the European Ceramic Society</i> , 2021, 41, 4942-4950. | 5.7  | 5         |
| 35 | Biotemplating synthesis of rod-shaped tin sulfides assembled by interconnected nanosheets for energy storage. <i>Journal of Power Sources</i> , 2021, 506, 230180.   | 7.8  | 7         |
| 36 | Bioprocess-inspired synthesis of printable, self-healing mineral hydrogels for rapidly responsive, wearable ionic skin. <i>Chemical Engineering Journal</i> , 2021, 424, 130549.   | 12.7 | 33        |

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|----|---|------|-----------|
| 37 | A novel durable spinel-type ZnGa <sub>2</sub> O <sub>4</sub> transparent ceramic with wide transmission range. <i>Scripta Materialia</i> , 2021, 205, 114186.   | 5.2  | 6         |
| 38 | Growth of mineralized collagen films by oriented calcium fluoride nanocrystal assembly with enhanced cell proliferation. <i>Journal of Materials Chemistry B</i> , 2021, 9, 6668-6677.  | 5.8  | 6         |
| 39 | Rapid collagen-directed mineralization of calcium fluoride nanocrystals with periodically patterned nanostructures. <i>Nanoscale</i> , 2021, 13, 8293-8303.   | 5.6  | 11        |
| 40 | Bioinspired 3D Printable, Self-Healable, and Stretchable Hydrogels with Multiple Conductivities for Skin-like Wearable Strain Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 2952-2960.                                   | 8.0  | 125       |
| 41 | Nonclassical Crystallization of Amorphous Calcium Carbonate in the Presence of Phosphate Ions. <i>Crystal Growth and Design</i> , 2021, 21, 414-423.  | 3.0  | 21        |
| 42 | Silk fibroin directs the formation of monetite nanocrystals and their assembly into hierarchical composites. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9136-9141.  | 5.8  | 2         |
| 43 | Fabrication and properties of highly transparent Li <sub>0.07</sub> Al <sub>2.76</sub> O <sub>3.64</sub> N <sub>0.36</sub> ceramics by aqueous gelcasting and two-step preparation. <i>Ceramics International</i> , 2021, 48, 6608-6608.      | 4.8  | 2         |
| 44 | Preparation and characterization of reduced graphene oxide-reinforced boron carbide ceramics by self-assembly polymerization and spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2020, 40, 612-621.                  | 5.7  | 19        |
| 45 | Bioprocess-inspired Microscale Additive Manufacturing of Multilayered TiO <sub>2</sub> /Polymer Composites with Enamel-like Structures and High Mechanical Properties. <i>Advanced Functional Materials</i> , 2020, 30, 1904880.              | 14.9 | 33        |
| 46 | A novel spinel-type Mg <sub>0.55</sub> Al <sub>2.36</sub> O <sub>3.81</sub> N <sub>0.19</sub> transparent ceramic with infrared transmittance range comparable to c-plane sapphire. <i>Scripta Materialia</i> , 2020, 178, 428-432.           | 5.2  | 25        |
| 47 | Sintering highly dense ultra-high temperature ceramics with suppressed grain growth. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1086-1092.  | 5.7  | 22        |
| 48 | The microstructural origin of rapid densification in 3YSZ during ultra-fast firing with or without an electric field. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5829-5836.   | 5.7  | 40        |
| 49 | Structural Study of Mg <sub>y</sub> Al <sub>(8-x-2y)</sub> /3O <sub>4</sub> (0 < x < 0.5, 0 < y < 1) Spinel Probed by X-ray Diffraction, 27Al MAS NMR, and First-Principles Calculations. <i>Inorganic Chemistry</i> , 2020, 59, 17009-17017. | 4.0  | 9         |
| 50 | Hierarchically structured porous materials: synthesis strategies and applications in energy storage. <i>National Science Review</i> , 2020, 7, 1667-1701.   | 9.5  | 164       |
| 51 | Particle-attachment crystallization facilitates the occlusion of micrometer-sized <i>Escherichia coli</i> in calcium carbonate crystals with stable fluorescence. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9269-9276.               | 5.8  | 8         |
| 52 | Aqueous Sn-S Complex Derived Electron Selective Layer for Perovskite Solar Cells. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2020, 35, 272-279.   | 1.0  | 1         |
| 53 | Large-scale synthesis and growth mechanism of boron nitride nanocomposite assembled by nanosheets and nanotubes. <i>Journal of the American Ceramic Society</i> , 2020, 103, 5594-5598.   | 3.8  | 4         |
| 54 | Surface-diffusion mechanism for synthesis of substrate-free and catalyst-free boron nitride nanosheets. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5324-5331.   | 5.7  | 10        |

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|----|---|------|-----------|
| 55 | Synthesis of monodisperse rod-shaped silica particles through biotemplating of surface-functionalized bacteria. <i>Nanoscale</i> , 2020, 12, 8732-8741.   | 5.6  | 10        |
| 56 | Microstructure and anisotropic mechanical properties of B <sub>6.5</sub> C-TiB <sub>2</sub> -SiC-BN composites fabricated by reactive hot pressing. <i>Journal of the European Ceramic Society</i> , 2020, 40, 2862-2869.   | 5.7  | 13        |
| 57 | Theoretical study on composition- and pressure-dependent mechanical properties of AlON solid solution. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4390-4401.   | 3.8  | 8         |
| 58 | Sintering dense nanocrystalline 3YSZ ceramics without grain growth by plastic deformation as dominating mechanism. <i>Ceramics International</i> , 2019, 45, 9363-9367.   | 4.8  | 18        |
| 59 | TEM characterization of a Supra-Nano-Dual-Phase binder phase in spark plasma sintered TiB <sub>2</sub> -5 wt% HEAs cermet. <i>Ceramics International</i> , 2019, 45, 9401-9405.   | 4.8  | 7         |
| 60 | Stable Pd@Cu Core-Shell Nanocubes with Finely Tuned Sizes for the Reduction of Nitroaromatics. <i>ACS Applied Nano Materials</i> , 2019, 2, 4584-4593.  | 5.0  | 11        |
| 61 | The Impact Failure and Energy Dissipation Mechanism of Polyethylene Laminates. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2019, 34, 723-727.  | 1.0  | 1         |
| 62 | Photosynthesis-Inspired Acceleration of Carrier Separation: Co <sup>2+</sup> and CH <sub>3</sub> COO <sup>-</sup> Ions Synergistically Enhanced Photocatalytic Hydrogen Evolution of Graphitic Carbon Nitride. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, , . | 6.7  | 0         |
| 63 | Defect-induced formation mechanism for boron nitride nanosheets-nanotubes hybrid structures. <i>Scripta Materialia</i> , 2019, 171, 16-20.  | 5.2  | 8         |
| 64 | A bio-inspired strategy for enhanced hydrogen evolution: carbonate ions as hole vehicles to promote carrier separation. <i>Nanoscale</i> , 2019, 11, 11451-11456.   | 5.6  | 10        |
| 65 | Highly transparent Mg <sub>0.27</sub> Al <sub>2.58</sub> O <sub>3.73</sub> N <sub>0.27</sub> ceramic fabricated by aqueous gelcasting, pressureless sintering, and post-CHIP. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6507-6516.                        | 3.8  | 16        |
| 66 | Bioprocess-inspired fabrication of materials with new structures and functions. <i>Progress in Materials Science</i> , 2019, 105, 100571.   | 32.8 | 76        |
| 67 | Predicting properties of MgO·Al <sub>2</sub> O <sub>3</sub> by first-principles calculation combined with bond valence models. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6913-6924.   | 3.8  | 6         |
| 68 | Effect of pretreated microstructure on subsequent sintering performance of MgAl <sub>2</sub> O <sub>4</sub> ceramics. <i>Ceramics International</i> , 2019, 45, 7544-7551.  | 4.8  | 10        |
| 69 | Organized Arrangement of Calcium Carbonate Crystals, Directed by a Rationally Designed Protein. <i>Crystal Growth and Design</i> , 2018, 18, 3576-3583.   | 3.0  | 9         |
| 70 | Preparation of transparent MgO·1.8Al <sub>2</sub> O <sub>3</sub> spinel ceramics by aqueous gelcasting, presintering and hot isostatic pressing. <i>Journal of the European Ceramic Society</i> , 2018, 38, 4057-4063.  | 5.7  | 25        |
| 71 | Pressure-enhanced densification of TaC ceramics during flash spark plasma sintering. <i>Journal of the American Ceramic Society</i> , 2018, 102, 98.  | 3.8  | 11        |
| 72 | Urchin-like boron nitride hierarchical structure assembled by nanotubes-nanosheets for effective removal of heavy metal ions. <i>Ceramics International</i> , 2018, 44, 12216-12224.  | 4.8  | 34        |

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|----|---|------|-----------|
| 73 | Magic Angle Spinning NMR Study on Inversion Behavior and Vacancy Disorder in Alumina-Rich Spinel. <i>Inorganic Chemistry</i> , 2018, 57, 8390-8395.   | 4.0  | 10        |
| 74 | Preparation and Characterization of TiB <sub>2</sub> -(Supra-Nano-Dual-Phase) High-Entropy Alloy Cermet by Spark Plasma Sintering. <i>Metals</i> , 2018, 8, 58.   | 2.3  | 11        |
| 75 | Synthesis, densification, and microstructure of TaCâ€“TaB<sub>2</sub>â€“SiC ceramics. <i>Journal of the American Ceramic Society</i> , 2018, 101, 5400-5410.  | 3.8  | 14        |
| 76 | Synthesis of ultra-fine tantalum carbide powders by a combinational method of solâ€“gel and spark plasma sintering. <i>Ceramics International</i> , 2018, 44, 19106-19112.  | 4.8  | 16        |
| 77 | Mn <sup>2+</sup> activated MgAlON transparent ceramic: A new green-emitting transparent ceramic phosphor for high-power white LED. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4229-4233.                | 5.7  | 51        |
| 78 | Novel synthesis approaches for new structures in confined space inspired by natural structure-forming processes. <i>Journal of Materiomics</i> , 2017, 3, 83-95.  | 5.7  | 8         |
| 79 | A simple bulk modulus model for crystal materials based on the bond valence model. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22177-22189.  | 2.8  | 12        |
| 80 | Combining <sup>27</sup> Al Solid-State NMR and First-Principles Simulations To Explore Crystal Structure in Disordered Aluminum Oxynitride. <i>Inorganic Chemistry</i> , 2016, 55, 12930-12937.                         | 4.0  | 19        |
| 81 | Characterization in activatorsâ€™ distribution and photoluminescence properties of Ce <sup>3+</sup> doped MgAlON transparent fluorescent ceramic. <i>Journal of the European Ceramic Society</i> , 2016, 36, 2801-2805. | 5.7  | 13        |
| 82 | Confined-space synthesis of nanostructured anatase, directed by genetically engineered living organisms for lithium-ion batteries. <i>Chemical Science</i> , 2016, 7, 6330-6336.  | 7.4  | 28        |
| 83 | Simple Method for the Hardness Estimation of Inorganic Crystals by the Bond Valence Model. <i>Inorganic Chemistry</i> , 2016, 55, 11089-11095.  | 4.0  | 17        |
| 84 | Musselâ€“Directed Synthesis of Nitrogenâ€“Doped Anatase TiO<sub>2</sub>. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3031-3035.  | 13.8 | 33        |
| 85 | Theoretical predictions of composition-dependent structure and properties of alumina-rich spinel. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1073-1079.   | 5.7  | 20        |
| 86 | Microstructural refinement in spark plasma sintering 3Y-TZP nanoceramics. <i>Journal of the European Ceramic Society</i> , 2016, 36, 2565-2571.   | 5.7  | 18        |
| 87 | Ultra-fast densification of boron carbide by flash spark plasma sintering. <i>Scripta Materialia</i> , 2016, 116, 127-130.  | 5.2  | 72        |
| 88 | Confinement controlled mineralization of calcium carbonate within collagen fibrils. <i>Journal of Materials Chemistry B</i> , 2016, 4, 880-886.   | 5.8  | 29        |
| 89 | Sintering boron carbide ceramics without grain growth by plastic deformation as the dominant densification mechanism. <i>Scientific Reports</i> , 2015, 5, 15827.   | 3.3  | 103       |
| 90 | Novel divalent europium doped MgAlON transparent ceramic for shortwave ultraviolet erasable windows. <i>Scripta Materialia</i> , 2015, 105, 30-33.  | 5.2  | 22        |

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|-----|---|------|-----------|
| 91  | Organized intrafibrillar mineralization, directed by a rationally designed multi-functional protein. Journal of Materials Chemistry B, 2015, 3, 4496-4502.  | 5.8  | 31        |
| 92  | Bioprocess-inspired synthesis of hierarchically porous nitrogen-doped TiO <sub>2</sub> with high visible-light photocatalytic activity. Journal of Materials Chemistry A, 2015, 3, 19588-19596.               | 10.3 | 41        |
| 93  | Fabrication and properties of TiB <sub>2</sub> -based cermets by spark plasma sintering with CoCrFeNiTiAl high-entropy alloy as sintering aid. Journal of the European Ceramic Society, 2015, 35, 879-886.    | 5.7  | 62        |
| 94  | First-Principles Insight into the Composition-Dependent Structure and Properties of $\alpha$ -Alon. Journal of the American Ceramic Society, 2014, 97, 2996-3003.   | 3.8  | 24        |
| 95  | Composition-dependent bonding and hardness of $\alpha$ -aluminum oxynitride: A first-principles investigation. Journal of Applied Physics, 2014, 115, 223511.   | 2.5  | 14        |
| 96  | Grain growth stagnation in the dense nanocrystalline yttria prepared by combustion reaction and quick pressing with an ultra-high heating rate. Journal of the European Ceramic Society, 2014, 34, 2475-2482. | 5.7  | 7         |
| 97  | Highly Transparent $\text{Mg}_{0.27}\text{Al}_{2.58}\text{O}_{4.73}$ Ceramic Prepared by Pressureless Sintering. Journal of the American Ceramic Society, 2014, 97, 63-66.                                    | 4.73 | 13        |
| 98  | Chemical Composition, Crystal Structure, and Their Relationships with the Intrinsic Properties of Spinel-Type Crystals Based on Bond Valences. Inorganic Chemistry, 2014, 53, 5986-5992.                      | 4.0  | 32        |
| 99  | First-Principles Study on Site Preference of Aluminum Vacancy and Nitrogen Atoms in $\alpha$ -Alon. Journal of the American Ceramic Society, 2013, 96, 1937-1943.   | 3.8  | 34        |
| 100 | The nature of grain boundaries in alumina fabricated by fast sintering. Scripta Materialia, 2010, 62, 658-661.  | 5.2  | 55        |
| 101 | Full densification of zirconium carbide ceramics sintered under high pressure at low temperature. International Journal of Applied Ceramic Technology, 0, , .   | 2.1  | 6         |
| 102 | Mussel directed synthesis of SnO <sub>2</sub> /graphene oxide composite for energy storage. Materials Chemistry Frontiers, 0, , .   | 5.9  | 2         |
| 103 | ZnO- $\text{Al}_2\text{O}_3$ Nanocomposite with high optical transparency. Journal of the American Ceramic Society, 0, , .  | 3.8  | 0         |