

# Srikanth Mateti

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

1,958  
citations

257101

24  
h-index

253896

43  
g-index

46  
all docs

46  
docs citations

46  
times ranked

3081  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | K-ion and Na-ion storage performances of Co <sub>3</sub> O <sub>4</sub> @Fe <sub>2</sub> O <sub>3</sub> nanoparticle-decorated super P carbon black prepared by a ball milling process. <i>Nanoscale</i> , 2017, 9, 3646-3654.                      | 2.8 | 176       |
| 2  | Nanoflake Arrays of Lithiophilic Metal Oxides for the Ultra-Stable Anodes of Lithium-Metal Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1803023.   | 7.8 | 156       |
| 3  | Highly Compressive Boron Nitride Nanotube Aerogels Reinforced with Reduced Graphene Oxide. <i>ACS Nano</i> , 2019, 13, 7402-7409.   | 7.3 | 115       |
| 4  | Mechanochemistry: A force in disguise and conditional effects towards chemical reactions. <i>Chemical Communications</i> , 2021, 57, 1080-1092.   | 2.2 | 112       |
| 5  | Biocompatibility of boron nitride nanosheets. <i>Nano Research</i> , 2018, 11, 334-342.   | 5.8 | 98        |
| 6  | Improving thermal conductivity of polymer composites by reducing interfacial thermal resistance between boron nitride nanotubes. <i>Composites Science and Technology</i> , 2018, 165, 322-330.   | 3.8 | 98        |
| 7  | Amine-Functionalized Boron Nitride Nanosheets: A New Functional Additive for Robust, Flexible Ion Gel Electrolyte with High Lithium-Ion Transference Number. <i>Advanced Functional Materials</i> , 2020, 30, 1910813.                              | 7.8 | 86        |
| 8  | High temperature and high rate lithium-ion batteries with boron nitride nanotubes coated polypropylene separators. <i>Energy Storage Materials</i> , 2019, 19, 352-359.   | 9.5 | 82        |
| 9  | Ex situ electrochemical sodiation/desodiation observation of Co <sub>3</sub> O <sub>4</sub> -anchored carbon nanotubes: a high performance sodium-ion battery anode produced by pulsed plasma in a liquid. <i>Nanoscale</i> , 2015, 7, 13088-13095. | 2.8 | 80        |
| 10 | Boron nitride nanosheets reinforced waterborne polyurethane coatings for improving corrosion resistance and antifriction properties. <i>European Polymer Journal</i> , 2018, 104, 57-63.  | 2.6 | 78        |
| 11 | Bulk Hexagonal Boron Nitride with a Quasi-Isotropic Thermal Conductivity. <i>Advanced Functional Materials</i> , 2018, 28, 1707556.   | 7.8 | 78        |
| 12 | Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surface-Enhanced Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8405-8409.  | 7.2 | 73        |
| 13 | Boron Nitride Nanosheet-Veiled Gold Nanoparticles for Surface-Enhanced Raman Scattering. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 15630-15636.  | 4.0 | 54        |
| 14 | An Ultra-Long-Life Flexible Lithium-Sulfur Battery with Lithium Cloth Anode and Polysulfone-Functionalized Separator. <i>ACS Nano</i> , 2021, 15, 1358-1369.  | 7.3 | 53        |
| 15 | Gas Protection of Two-Dimensional Nanomaterials from High-Energy Impacts. <i>Scientific Reports</i> , 2016, 6, 35532.   | 1.6 | 52        |
| 16 | Challenges and solutions in surface engineering and assembly of boron nitride nanosheets. <i>Materials Today</i> , 2021, 44, 194-210.   | 8.3 | 52        |
| 17 | Maricite NaFePO <sub>4</sub> /C/graphene: a novel hybrid cathode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16616-16621.  | 5.2 | 50        |
| 18 | Molecule-Induced Conformational Change in Boron Nitride Nanosheets with Enhanced Surface Adsorption. <i>Advanced Functional Materials</i> , 2016, 26, 8202-8210.  | 7.8 | 47        |

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|----|---|-----|-----------|
| 19 | Boron Radicals Identified as the Source of the Unexpected Catalysis by Boron Nitride Nanosheets. ACS Nano, 2019, 13, 1394-1402.   | 7.3 | 39        |
| 20 | Synthesis of Composite Nanosheets of Graphene and Boron Nitride and Their Lubrication Application in Oil. Advanced Engineering Materials, 2018, 20, 1700488.  | 1.6 | 35        |
| 21 | Repelling Polysulfide Ions by Boron Nitride Nanosheet Coated Separators in Lithium-Sulfur Batteries. ACS Applied Energy Materials, 2019, 2, 2620-2628.  | 2.5 | 32        |
| 22 | Boron Nitride Nanosheet Dispersion at High Concentrations. ACS Applied Materials & Interfaces, 2021, 13, 44751-44759.   | 4.0 | 30        |
| 23 | Metal ion type significantly affects the morphology but not the activity of lipase-metal-phosphate nanoflowers. RSC Advances, 2017, 7, 25437-25443.   | 1.7 | 28        |
| 24 | Self-assembled V <sub>2</sub> O <sub>5</sub> interconnected microspheres produced in a fish-water electrolyte medium as a high-performance lithium-ion-battery cathode. Nano Research, 2015, 8, 3591-3603.  | 5.8 | 27        |
| 25 | Approaching Reactive KFePO <sub>4</sub> Phase for Potassium Storage by Adopting an Advanced Design Strategy. Batteries and Supercaps, 2020, 3, 450-455.   | 2.4 | 25        |
| 26 | Documenting capacity and cyclic stability enhancements in synthetic graphite potassium-ion battery anode material modified by low-energy liquid phase ball milling. Journal of Power Sources, 2020, 476, 228733.                                    | 4.0 | 25        |
| 27 | Indirect Nanoconstruction Morphology of Ni <sub>3</sub> S <sub>2</sub> Electrodes Renovates the Performance for Electrochemical Energy Storage. ACS Applied Energy Materials, 2018, 1, 6945-6952.   | 2.5 | 24        |
| 28 | Atomically Thin Boron Nitride as an Ideal Spacer for Metal-Enhanced Fluorescence. ACS Nano, 2019, 13, 12184-12191.  | 7.3 | 24        |
| 29 | In situ prepared V <sub>2</sub> O <sub>5</sub> /graphene hybrid as a superior cathode material for lithium-ion batteries. RSC Advances, 2016, 6, 35287-35294.   | 1.7 | 14        |
| 30 | Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surface-Enhanced Raman Spectroscopy. Angewandte Chemie, 2016, 128, 8545-8549.   | 1.6 | 13        |
| 31 | <i>In situ</i> production of a two-dimensional molybdenum disulfide/graphene hybrid nanosheet anode for lithium-ion batteries. RSC Advances, 2020, 10, 12754-12758.   | 1.7 | 12        |
| 32 | <i>In situ</i> doping and synthesis of two-dimensional nanomaterials using mechano-chemistry. Nanoscale Horizons, 2019, 4, 642-646.   | 4.1 | 10        |
| 33 | Porous carbon fibers made from collagen derived from an animal by-product. Materials Today Advances, 2019, 1, 100005.   | 2.5 | 10        |
| 34 | Large, Mesoporous Carbon Nanoparticles with Tunable Architectures for Energy Storage. ACS Applied Nano Materials, 2019, 2, 1727-1736.   | 2.4 | 9         |
| 35 | Additive-Free Nb <sub>2</sub> O <sub>5</sub> -TiO <sub>2</sub> Hybrid Anode towards Low-Cost and Safe Lithium-Ion Batteries: A Green Electrode Material Produced in an Environmentally Friendly Process. Batteries and Supercaps, 2019, 2, 160-167. | 2.4 | 9         |
| 36 | End-of-Life Photovoltaic Recycled Silicon: A Sustainable Circular Materials Source for Electronic Industries. Advanced Energy and Sustainability Research, 2021, 2, 2100081.  | 2.8 | 9         |

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|----|---|-----|-----------|
| 37 | Nano germanium incorporated thin graphite nanoplatelets: A novel germanium based lithium-ion battery anode with enhanced electrochemical performance. <i>Electrochimica Acta</i> , 2021, 391, 139001.                   | 2.6 | 9         |
| 38 | Nanoparticle-mediated ultra grain refinement and reinforcement in additively manufactured titanium alloys. <i>Additive Manufacturing</i> , 2021, 46, 102173.  | 1.7 | 8         |
| 39 | Boron nitride nanosheets for surface-enhanced Raman spectroscopy. <i>Materials Today Physics</i> , 2022, 22, 100575.  | 2.9 | 6         |
| 40 | Superb storage and energy saving separation of hydrocarbon gases in boron nitride nanosheets via a mechanochemical process. <i>Materials Today</i> , 2022, 57, 26-34.   | 8.3 | 6         |
| 41 | Lithium-metal polysulfide batteries with free-standing MoS <sub>2</sub> /C thin-film cathodes. <i>Journal of Power Sources</i> , 2021, 511, 230445.   | 4.0 | 4         |
| 42 | Nanomaterials enhancing the solid-state storage and decomposition of ammonia. <i>Nanotechnology</i> , 2022, 33, 222001.   | 1.3 | 4         |
| 43 | Biomimetic hierarchical porous carbon fibers via block copolymer self-assembly. <i>Microporous and Mesoporous Materials</i> , 2021, 321, 111136.  | 2.2 | 3         |
| 44 | 2D Nanomaterials: Molecule-Induced Conformational Change in Boron Nitride Nanosheets with Enhanced Surface Adsorption ( <i>Adv. Funct. Mater.</i> 45/2016). <i>Advanced Functional Materials</i> , 2016, 26, 8356-8356. | 7.8 | 1         |
| 45 | Plasma treated water – A promising electrolyte to produce nanoporous titanium dioxide nanotubes. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600219.  | 1.6 | 0         |