# Shixiang Lu

List of Publications by Year
in descending order

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| 61 | 1,532 | 304602 | 315616 |
|---|---|---|---|
| papers | citations | 22 h-index | 38 g-index |

| 61 | 61 | 61 | 1737 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Preparation of ultrahigh thermally conductive materials of graphene composites by electrophoresis on carbon fiber. Journal of Materials Science, 2022, 57, 4210-4220. | 1.7 | 4 |
| 2 | Preparation and application of a flower-rod-like Bi2S3/Co3O4/rGO/nickel foam supercapacitor electrode. New Journal of Chemistry, 2022, 46, 857-867. | 1.4 | 4 |
| 3 | Fabrication and Simulation of a Layered Ultrahigh Thermally Conductive Material of Lamellar Stacking Graphene and Polydopamine on an Aluminum Substrate. ACS Omega, 2022, 7, 4267-4276. | 1.6 | 1 |
| 4 | Fabrication of an ultra-stable composite electrode material of La<sub>2</sub>O<sub>3</sub>/Co<sub>3</sub>O<sub>4</sub>/graphene on nickel foam for high-performance supercapacitors. New Journal of Chemistry, 2022, 46, 7202-7211. | 1.4 | 2 |
| 5 | Fabrication of stable ZnO/Znâ€“Al/Al2O3 superhydrophobic material on aluminum substrate for high photocatalytic and antibacterial activity. Chemical Papers, 2022, 76, 5159-5175. | 1.0 | 2 |
| 6 | Fabrication of composite material of RuCo<sub>2</sub>O<sub>4</sub>and graphene on nickel foam for supercapacitor electrodes. RSC Advances, 2022, 12, 15508-15516. | 1.7 | 5 |
| 7 | Fabrication of a composite material of Gd<sub>2</sub>O<sub>3</sub>, Co<sub>3</sub>O<sub>4</sub> and graphene on nickel foam for high-stability supercapacitors. New Journal of Chemistry, 2022, 46, 12184-12195. | 1.4 | 5 |
| 8 | Fabrication of Pd nanoparticles on Al substrate with excellent superhydrophobicity and photocatalytic activity. Journal of Physics and Chemistry of Solids, 2021, 148, 109704. | 1.9 | 6 |
| 9 | Fabrication of stable superhydrophobic bismuth material on the aluminum substrate with high photocatalytic activity. Journal of Nanoparticle Research, 2021, 23, 1. | 0.8 | 4 |
| 10 | The fabrication composite material of bimetallic micro/nanostructured palladiumâ€“platinum alloy and graphene on nickel foam for the enhancement of electrocatalytic activity. New Journal of Chemistry, 2021, 45, 6550-6559. | 1.4 | 5 |
| 11 | Fabrication and simulation of a layered ultrahigh thermal conductive material made of self-assembled graphene and polydopamine on a copper substrate. RSC Advances, 2021, 11, 34676-34687. | 1.7 | 6 |
| 12 | Preparation of magnetic, superhydrophobic/superoleophilic polyurethane sponge: Separation of oil/water mixture and demulsification. Chemical Engineering Journal, 2020, 384, 123339. | 6.6 | 144 |
| 13 | Application of flammulina-velutipes-like CeO2/Co3O4/rGO in high-performance asymmetric supercapacitors. Electrochimica Acta, 2020, 353, 136599. | 2.6 | 31 |
| 14 | Fabrication of Composite Material with Pd Nanoparticles and Graphene on Nickel Foam for Its Excellent Electrocatalytic Performance. Electrocatalysis, 2020, 11, 522-535. | 1.5 | 18 |
| 15 | One-pot synthesis of NiCo2O4/rGO/NF hybrid electrode materials realizing ultrahigh capacitance and rapid charge/discharge at large current density. Applied Surface Science, 2020, 511, 145538. | 3.1 | 23 |
| 16 | In situ construction of dual-morphology ZnCo<sub>2</sub>O<sub>4</sub> for high-performance asymmetric supercapacitors. Nanoscale Advances, 2019, 1, 3086-3094. | 2.2 | 34 |
| 17 | Fabrication of a Pt nanoparticle surface on an aluminum substrate to achieve excellent superhydrophobicity and catalytic activity. New Journal of Chemistry, 2019, 43, 6069-6079. | 1.4 | 12 |
| 18 | Preparation of superhydrophobic/superoleophilic copper coated titanium mesh with excellent ice-phobic and water-oil separation performance. Applied Surface Science, 2019, 476, 353-362. | 3.1 | 30 |

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|---|---|---|---|
| 19 | Fabrication of bismuth superhydrophobic surface on zinc substrate. Journal of Solid State Chemistry, 2018, 262, 26-37. | 1.4 | 12 |
| 20 | Facile preparation of high density polyethylene superhydrophobic/superoleophilic coatings on glass, copper and polyurethane sponge for self-cleaning, corrosion resistance and efficient oil/water separation. Journal of Colloid and Interface Science, 2018, 525, 76-85. | 5.0 | 55 |
| 21 | A robust and repairable superhydrophobic Co<sub>5</sub>Zn<sub>21</sub> alloy surface on a zinc substrate. New Journal of Chemistry, 2018, 42, 5408-5414. | 1.4 | 14 |
| 22 | Stable superhydrophobic Zn/ZnO surfaces fabricated via electrodeposition on tin substrate for self-cleaning behavior and switchable wettability. Journal of Alloys and Compounds, 2018, 747, 772-782. | 2.8 | 48 |
| 23 | Controllable fabrication of superhydrophobic alloys surface on copper substrate for self-cleaning, anti-icing, anti-corrosion and anti-wear performance. Surface and Coatings Technology, 2018, 333, 61-70. | 2.2 | 38 |
| 24 | Durable superhydrophobic Zn/ZnO/TiO2 surfaces on Ti6Al4V substrate with self-cleaning property and switchable wettability. Ceramics International, 2018, 44, 638-647. | 2.3 | 22 |
| 25 | Fabrication of stable Niâ€“Al4Ni3â€“Al2O3 superhydrophobic surface on aluminum substrate for self-cleaning, anti-corrosive and catalytic performance. Journal of Materials Science, 2018, 53, 1097-1109. | 1.7 | 20 |
| 26 | The fabrication of graphene/polydopamine/nickel foam composite material with excellent electrochemical performance as supercapacitor electrode. Journal of Solid State Chemistry, 2018, 258, 401-409. | 1.4 | 16 |
| 27 | Synthesis of a Pt/reduced graphene oxide/polydopamine composite material for localized surface plasmon resonance and methanol electrocatalysis. New Journal of Chemistry, 2018, 42, 19458-19466. | 1.4 | 4 |
| 28 | A reliable filter for oil-water separation: Bismuth coated superhydrophobic/superoleophilic iron mesh. Journal of Alloys and Compounds, 2018, 769, 576-587. | 2.8 | 13 |
| 29 | Fabrication of Ag-Fe3O4/Fe superhydrophobic surface on galvanic sheet for its application. Journal of Solid State Chemistry, 2018, 266, 121-132. | 1.4 | 9 |
| 30 | Fabrication of graphene/copperâ€“nickel foam composite for high performance supercapacitors. New Journal of Chemistry, 2018, 42, 9455-9462. | 1.4 | 8 |
| 31 | Fabrication of stable Ir-ZnO/Zn superhydrophobic surface on zinc substrate for its properties and application. Journal of Alloys and Compounds, 2017, 699, 489-497. | 2.8 | 11 |
| 32 | Fabrication of Cuâ€“CuOâ€“Fe2O3/Fe anti-sticky and superhydrophobic surfaces on an iron substrate with mechanical abrasion resistance and corrosion resistance. New Journal of Chemistry, 2017, 41, 5205-5214. | 1.4 | 4 |
| 33 | Fabrication of superhydrophobic Pt 3 Fe/Fe surface for its application. Journal of Solid State Chemistry, 2017, 254, 14-24. | 1.4 | 4 |
| 34 | Controlled fabrication of NiO/ZnO superhydrophobic surface on zinc substrate with corrosion and abrasion resistance. Journal of Alloys and Compounds, 2017, 723, 225-236. | 2.8 | 37 |
| 35 | Synthesis of gold/polydopamine composite surfaces on glass substrates for localized surface plasmon resonance and catalysis. Applied Organometallic Chemistry, 2017, 31, e3785. | 1.7 | 9 |
| 36 | Robust dendritic Agâ€“Fe<sub>2</sub>O<sub>3</sub>/Fe surfaces with exquisite catalytic properties. New Journal of Chemistry, 2016, 40, 8897-8904. | 1.4 | 11 |

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|---|---|---|---|
| 37 | Fabrication of stable homogeneous superhydrophobic HDPE/graphene oxide surfaces on zinc substrates. RSC Advances, 2016, 6, 29823-29829. | 1.7 | 13 |
| 38 | Controllable wettability and morphology of electrodeposited surfaces on zinc substrates. Applied Surface Science, 2016, 360, 904-914. | 3.1 | 34 |
| 39 | Fabrication of Auâ€“AlAu<sub>4</sub>â€“Al<sub>2</sub>O<sub>3</sub> superhydrophobic surface and its corrosion resistance. RSC Advances, 2015, 5, 15387-15394. | 1.7 | 29 |
| 40 | Fabrication of superhydrophobic Auâ€“Zn alloy surface on a zinc substrate for roll-down, self-cleaning and anti-corrosion properties. Journal of Materials Chemistry A, 2015, 3, 16774-16784. | 5.2 | 84 |
| 41 | Controllable wettability of micro- and nano-dendritic structures formed on aluminum substrates. New Journal of Chemistry, 2015, 39, 6602-6610. | 1.4 | 34 |
| 42 | Controllable fabrication of stable superhydrophobic surfaces on iron substrates. RSC Advances, 2015, 5, 40657-40667. | 1.7 | 19 |
| 43 | Controllable growth of durable superhydrophobic coatings on a copper substrate via electrodeposition. Physical Chemistry Chemical Physics, 2015, 17, 10871-10880. | 1.3 | 52 |
| 44 | Facile fabrication of heterostructured g-C<sub>3</sub>N<sub>4</sub>/Bi<sub>2</sub>MoO<sub>6</sub> microspheres with highly efficient activity under visible light irradiation. Dalton Transactions, 2015, 44, 1601-1611. | 1.6 | 106 |
| 45 | The hydroxylated and reduced rutile TiO2(011)-2Ã—1 surfaces: A first-principles study. Surface Science, 2014, 628, 126-131. | 0.8 | 6 |
| 46 | LSDA+U calculations of the electronic and optical properties of rutile TiO2(110) vs (011)-2Ã—1 surfaces. Computational Materials Science, 2014, 90, 1-6. | 1.4 | 4 |
| 47 | Controlled growth of CuOâ€“Cu<sub>3</sub>Pt/Cu micro-nano binary architectures on copper substrate and its superhydrophobic behavior. New Journal of Chemistry, 2014, 38, 4534-4540. | 1.4 | 21 |
| 48 | Synthesis of tin superhydrophobic surfaces on zinc substrates. RSC Advances, 2014, 4, 39197. | 1.7 | 9 |
| 49 | First-principles study of Si atoms adsorbed on ZnO (0001) surface and the effect on electronic and optical properties. Surface Science, 2014, 625, 30-36. | 0.8 | 21 |
| 50 | First-principles study of structural, electronic, and optical properties of the rutile TiO2(011)-2Ã—1 surface. Surface Science, 2014, 621, 88-93. | 0.8 | 12 |
| 51 | First-principles study of electronic structures and photocatalytic activity of low-Miller-index surfaces of ZnO. Journal of Applied Physics, 2013, 113, 034903. | 1.1 | 16 |
| 52 | First-principles study of dopants and defects in S-doped ZnO and its effect on photocatalytic activity. Computational Materials Science, 2012, 58, 119-124. | 1.4 | 38 |
| 53 | Fabrication of CuZn5â€“ZnOâ€“CuO microâ€“nano binary superhydrophobic surfaces of Cassieâ€“Baxter and Gecko model on zinc substrates. Materials Chemistry and Physics, 2012, 134, 657-663. | 2.0 | 12 |
| 54 | Fabrication of superhydrophobic surfaces on zinc substrates and their application as effective corrosion barriers. Applied Surface Science, 2011, 258, 1359-1365. | 3.1 | 54 |

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|---|---|---|---|
| 55 | Controlled growth of superhydrophobic films without any low-surface-energy modification by chemical displacement on zinc substrates. Materials Chemistry and Physics, 2011, 129, 1042-1046. | 2.0 | 31 |
| 56 | Fabrication of superhydrophobic surfaces on zinc substrates. Applied Surface Science, 2011, 257, 4801-4806. | 3.1 | 32 |
| 57 | One-step controllable fabrication of superhydrophobic surfaces with special composite structure on zinc substrates. Journal of Colloid and Interface Science, 2011, 361, 388-396. | 5.0 | 27 |
| 58 | Controlled growth of superhydrophobic films by solâ€“gel method on aluminum substrate. Applied Surface Science, 2010, 256, 6072-6075. | 3.1 | 86 |
| 59 | Structures, vibrational frequencies, and electron affinities of SF5On/SF5Onâ¯ (n=1â€“3). Computational and Theoretical Chemistry, 2009, 900, 77-83. | 1.5 | 4 |
| 60 | Structures, electron affinities, and vibrational frequencies of the mono-, di-substituted SF6 radicals. Computational and Theoretical Chemistry, 2008, 863, 28-32. | 1.5 | 5 |
| 61 | Fabrication of Superhydrophobic Surfaces with Hierarchical Structure through a Solution-Immersion Process on Copper and Galvanized Iron Substrates. Langmuir, 2008, 24, 10895-10900. | 1.6 | 112 |