

Shikuan Yang

List of Publications by Year in descending order

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69
papers

4,471
citations

109264

35
h-index

102432

66
g-index

72
all docs

72
docs citations

72
times ranked

6042
citing authors

#	ARTICLE	IF	CITATIONS
1	Seed/ligand-cooperative growth of dense Au nanospikes on magnetic microparticles for SERS applications. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3368-3374.	2.7	6
2	Nanoporous silver nanorods as surface-enhanced Raman scattering substrates. <i>Biosensors and Bioelectronics</i> , 2022, 202, 114004.	5.3	18
3	Interfacial layer-by-layer self-assembly of PS nanospheres and Au@Ag nanorods for fabrication of broadband and sensitive SERS substrates. <i>Journal of Colloid and Interface Science</i> , 2022, 620, 388-398.	5.0	24
4	Drawing at the Nanoscale through Macroscopic Movement. <i>Small Methods</i> , 2022, 6, e2200293.	4.6	2
5	An overview of the pressure- and strain-induced changes in the structural and optoelectronic properties of organometal halide perovskites. <i>Solar Energy</i> , 2022, 239, 198-220.	2.9	4
6	Plasmonic Polycrystals within Microbowl Arrays. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	4
7	Breaking the nanoparticle's dispersible limit via rotatable surface ligands. <i>Nature Communications</i> , 2022, 13, .	5.8	23
8	Local hot charge density regulation: Vibration-free pyroelectric nanogenerator for effectively enhancing catalysis and in-situ surface enhanced Raman scattering monitoring. <i>Nano Energy</i> , 2021, 81, 105585.	8.2	154
9	Cupriferous Silver Peroxysulfite Superpyramids as a Universal and Long-Lasting Agent to Eradicate Multidrug-Resistant Bacteria and Promote Wound Healing. <i>ACS Applied Bio Materials</i> , 2021, 4, 3729-3738.	2.3	10
10	Sustainable fabrication of ultralong Pb(OH)Br nanowires and their conversion to luminescent CH ₃ NH ₃ PbBr ₃ nanowires. <i>Green Chemistry</i> , 2021, 23, 7956-7962.	4.6	3
11	Laurionite Competes with 2D Ruddlesden-Popper Perovskites During the Saturation Recrystallization Process. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6505-6514.	4.0	4
12	Ultrasmall CsPbBr ₃ Quantum Dots with Bright and Wide Blue Emissions. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100134.	1.2	14
13	Nontoxic and Less Toxic Hybrid Perovskites: a Synergistic Strategy for Sustainable Photovoltaic Devices. <i>Solar Rrl</i> , 2021, 5, 2100212.	3.1	10
14	Ultrasensitive SERS detection of exhaled biomarkers of lung cancer using a multifunctional solid phase extraction membrane. <i>Nanoscale</i> , 2021, 13, 13344-13352.	2.8	31
15	Self-assembled template-confined growth of ultrathin CsPbBr ₃ nanowires. <i>Applied Materials Today</i> , 2020, 18, 100449.	2.3	10
16	Beehive-Inspired Macroporous SERS Probe for Cancer Detection through Capturing and Analyzing Exosomes in Plasma. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5136-5146.	4.0	102
17	The effect of dodecylammonium chloride on the film morphology, crystallinity, and performance of lead-free Bi-based solution-processed photovoltaics devices. <i>Solar Energy</i> , 2020, 207, 1356-1363.	2.9	18
18	Quantitative and Sensitive SERS Platform with Analyte Enrichment and Filtration Function. <i>Nano Letters</i> , 2020, 20, 7304-7312.	4.5	184

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19	Aqueous phase fabrication and conversion of Pb(OH)Br into a CH ₃ NH ₃ PbBr ₃ perovskite and its application in resistive memory switching devices. <i>Green Chemistry</i> , 2020, 22, 3608-3614.	4.6	19
20	A Potential Checkmate to Lead: Bismuth in Organometal Halide Perovskites, Structure, Properties, and Applications. <i>Advanced Science</i> , 2020, 7, 1903143.	5.6	60
21	Ultrastable Laurionite Spontaneously Encapsulates Reduced-dimensional Lead Halide Perovskites. <i>Nano Letters</i> , 2020, 20, 2316-2325.	4.5	20
22	Springtail-Inspired Superamphiphobic Ordered Nanohoodoo Arrays with Quasi-Doubly Reentrant Structures. <i>Small</i> , 2020, 16, e2000779.	5.2	41
23	Electrodeposited surfaces with reversibly switching interfacial properties. <i>Science Advances</i> , 2019, 5, eaax0380.	4.7	43
24	Bioinspired Brochosomes as Broadband and Omnidirectional Surface-Enhanced Raman Scattering Substrates. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6484-6491.	2.1	35
25	Volume-Enhanced Raman Scattering Detection of Viruses. <i>Small</i> , 2019, 15, e1805516.	5.2	150
26	Laser irradiation-induced laminated graphene/MoS ₂ composites with synergistically improved tribological properties. <i>Nanotechnology</i> , 2018, 29, 265704.	1.3	26
27	Hydrophilic directional slippery rough surfaces for water harvesting. <i>Science Advances</i> , 2018, 4, eaaq0919.	4.7	386
28	Porous Cobalt Oxynitride Nanosheets for Efficient Electrocatalytic Water Oxidation. <i>ChemSusChem</i> , 2018, 11, 1479-1485.	3.6	29
29	Electrodeposition: Electrocarving during Electrodeposition Growth (Adv. Mater. 51/2018). <i>Advanced Materials</i> , 2018, 30, 1870395.	11.1	8
30	Design principle of all-inorganic halide perovskite-related nanocrystals. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12484-12492.	2.7	38
31	Electrocarving during Electrodeposition Growth. <i>Advanced Materials</i> , 2018, 30, e1805686.	11.1	28
32	Template-Confined Site-Specific Electrodeposition of Nanoparticle Cluster-in-Bowl Arrays as Surface Enhanced Raman Spectroscopy Substrates. <i>ACS Sensors</i> , 2018, 3, 2343-2350.	4.0	35
33	Durable Broadband and Omnidirectional Ultra-antireflective Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40180-40188.	4.0	21
34	Circumventing silver oxidation induced performance degradation of silver surface-enhanced Raman scattering substrates. <i>Nanotechnology</i> , 2018, 29, 414001.	1.3	12
35	Surface enhanced Raman scattering substrates prepared by thermal evaporation on liquid surfaces. <i>Nanotechnology</i> , 2018, 29, 375502.	1.3	11
36	A Switchable Cross-Species Liquid Repellent Surface. <i>Advanced Materials</i> , 2017, 29, 1604641.	11.1	186

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37	Ultra-antireflective synthetic brochosomes. <i>Nature Communications</i> , 2017, 8, 1285.	5.8	101
38	Growth temperature-dependent performance of planar $\text{CH}_3\text{NH}_3\text{PbI}_3$ solar cells fabricated by a two-step subliming vapor method below 120 °C. <i>RSC Advances</i> , 2016, 6, 47459-47467.	1.7	7
39	Recent progress in the fabrication of SERS substrates based on the arrays of polystyrene nanospheres. <i>Science China: Physics, Mechanics and Astronomy</i> , 2016, 59, 1.	2.0	11
40	Ultrasensitive surface-enhanced Raman scattering detection in common fluids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 268-273.	3.3	591
41	Exploring bubble oscillation and mass transfer enhancement in acoustic-assisted liquid-liquid extraction with a microfluidic device. <i>Scientific Reports</i> , 2015, 5, 12572.	1.6	31
42	Slippery Wenzel State. <i>ACS Nano</i> , 2015, 9, 9260-9267.	7.3	207
43	Combining the Masking and Scaffolding Modalities of Colloidal Crystal Templates: Plasmonic Nanoparticle Arrays with Multiple Periodicities. <i>Chemistry of Materials</i> , 2014, 26, 6432-6438.	3.2	14
44	Superhydrophobic surface enhanced Raman scattering sensing using Janus particle arrays realized by site-specific electrochemical growth. <i>Journal of Materials Chemistry C</i> , 2014, 2, 542-547.	2.7	41
45	Electrochemically created highly surface roughened Ag nanoplate arrays for SERS biosensing applications. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8350-8356.	2.7	43
46	Boundary layer viscosity of CNT-doped liquid crystals: effects of phase behavior. <i>Rheologica Acta</i> , 2013, 52, 939-947.	1.1	12
47	Optoacoustic tweezers: a programmable, localized cell concentrator based on opto-thermally generated, acoustically activated, surface bubbles. <i>Lab on A Chip</i> , 2013, 13, 1772.	3.1	63
48	Large-scale Fabrication of Three-dimensional Surface Patterns Using Template-defined Electrochemical Deposition. <i>Advanced Functional Materials</i> , 2013, 23, 720-730.	7.8	67
49	Surface Plasmon Resonance in Periodic Hexagonal Lattice Arrays of Silver Nanodisks. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-6.	1.5	11
50	Laser-induced reshaping of particles aiming at energy-saving applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 15947.	6.7	39
51	Fabrication and Characterization of Beaded SiC Quantum Rings with Anomalous Red Spectral Shift. <i>Advanced Materials</i> , 2012, 24, 5598-5603.	11.1	65
52	Microfluidic synthesis of multifunctional Janus particles for biomedical applications. <i>Lab on A Chip</i> , 2012, 12, 2097.	3.1	185
53	Enhanced tribology properties of ZnO/Al ₂ O ₃ composite nanoparticles as liquid lubricating additives. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 61, 501-508.	1.1	21
54	Template-directed dewetting of a gold membrane to fabricate highly SERS-active substrates. <i>Journal of Materials Chemistry</i> , 2011, 21, 14031.	6.7	28

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55	Recent progress on surface pattern fabrications based on monolayer colloidal crystal templates and related applications. <i>Nanoscale</i> , 2011, 3, 2768.	2.8	62
56	Reply to "Comment on "From Nanoparticles to Nanoplates: Preferential Oriented Connection of Ag Colloids during Electrophoretic Deposition". <i>Journal of Physical Chemistry C</i> , 2011, 115, 4982-4983.	1.5	2
57	Reshaping Formation and Luminescence Evolution of ZnO Quantum Dots by Laser-Induced Fragmentation in Liquid. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5038-5043.	1.5	70
58	Surface patterning using templates: concept, properties and device applications. <i>Chemical Society Reviews</i> , 2011, 40, 1247-1258.	18.7	190
59	Luminescent hollow carbon shells and fullerene-like carbon spheres produced by laser ablation with toluene. <i>Journal of Materials Chemistry</i> , 2011, 21, 4432.	6.7	87
60	Template-Confined Dewetting Process to Surface Nanopatterns: Fabrication, Structural Tunability, and Structure-Related Properties. <i>Advanced Functional Materials</i> , 2011, 21, 2446-2455.	7.8	120
61	Surface Nanometer-Scale Patterning in Realizing Large-Scale Ordered Arrays of Metallic Nanoshells with Well-Defined Structures and Controllable Properties. <i>Advanced Functional Materials</i> , 2010, 20, 2527-2533.	7.8	124
62	Ultra-fine SiC quantum dots fabricated by laser ablation in reactive liquid at room temperature and their violet emission. <i>Journal of Materials Chemistry</i> , 2009, 19, 7119.	6.7	79
63	Dramatic excitation dependence of strong and stable blue luminescence of ZnO hollow nanoparticles. <i>Applied Physics Letters</i> , 2009, 95, 191904.	1.5	38
64	Optical Study of Redox Behavior of Silicon Nanoparticles Induced by Laser Ablation in Liquid. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6480-6484.	1.5	39
65	From Nanoparticles to Nanoplates: Preferential Oriented Connection of Ag Colloids during Electrophoretic Deposition. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7692-7696.	1.5	44
66	General and Simple Route to Micro/Nanostructured Hollow-Sphere Arrays Based on Electrophoresis of Colloids Induced by Laser Ablation in Liquid. <i>Langmuir</i> , 2009, 25, 8287-8291.	1.6	39
67	Controllable Pt/ZnO Porous Nanocages with Improved Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19620-19624.	1.5	157
68	Polycrystalline Si nanoparticles and their strong aging enhancement of blue photoluminescence. <i>Journal of Applied Physics</i> , 2008, 104, 023516.	1.1	49
69	Aging-Induced Self-Assembly of Zn/ZnO Treelike Nanostructures from Nanoparticles and Enhanced Visible Emission. <i>Crystal Growth and Design</i> , 2007, 7, 1092-1097.	1.4	56