

Kai Song

List of Publications by Year in descending order

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56
papers

1,119
citations

394421

19
h-index

454955

30
g-index

58
all docs

58
docs citations

58
times ranked

1524
citing authors

#	ARTICLE	IF	CITATIONS
1	Instantaneous, Simple, and Reversible Revealing of Invisible Patterns Encrypted in Robust Hollow Sphere Colloidal Photonic Crystals. <i>Advanced Materials</i> , 2018, 30, e1707246.	21.0	159
2	Label-free and pH-sensitive colorimetric materials for the sensing of urea. <i>Nanoscale</i> , 2016, 8, 4458-4462.	5.6	53
3	Fluorescent Liquid Metal As a Transformable Biomimetic Chameleon. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1589-1596.	8.0	53
4	Coloration of Liquid-Metal Soft Robots: From Silver-White to Iridescent. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41627-41636.	8.0	49
5	Non-equilibrium dynamics from RPMD and CMD. <i>Journal of Chemical Physics</i> , 2016, 145, 204118.	3.0	48
6	Bio-inspired controlled release through compression-relaxation cycles of microcapsules. <i>NPG Asia Materials</i> , 2015, 7, e148-e148.	7.9	32
7	Patterning and pixelation of colloidal photonic crystals for addressable integrated photonics. <i>Journal of Materials Chemistry</i> , 2011, 21, 11330.	6.7	31
8	Photo-responsive photonic crystals for broad wavelength shifts. <i>Chemical Communications</i> , 2018, 54, 3057-3060.	4.1	31
9	Microreactor-controlled selectivity in organic photochemical reactions. <i>Pure and Applied Chemistry</i> , 2000, 72, 2289-2298.	1.9	30
10	Electrowetting-induced Morphological Evolution of Metal-Organic Inverse Opals toward a Water-Lithography Approach. <i>Advanced Functional Materials</i> , 2017, 27, 1605221.	14.9	30
11	Defect Mode Passband Lasing in Self-Assembled Photonic Crystal. <i>ACS Photonics</i> , 2016, 3, 2330-2337.	6.6	29
12	Fabrication of optomicrofluidics for real-time bioassays based on hollow sphere colloidal photonic crystals with wettability patterns. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7853-7858.	5.5	27
13	Frosted Slides Decorated with Silica Nanowires for Detecting Circulating Tumor Cells from Prostate Cancer Patients. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19545-19553.	8.0	25
14	Integration of antireflection and light diffraction in nature: a strategy for light trapping. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10607.	10.3	24
15	Hollow spheres: crucial building blocks for novel nanostructures and nanophotonics. <i>Nanophotonics</i> , 2018, 7, 693-713.	6.0	24
16	Programmable light-driven swimming actuators via wavelength signal switching. <i>Science Advances</i> , 2021, 7, eabh3051.	10.3	24
17	Real-Time Fluorescence Detection in Aqueous Systems by Combined and Enhanced Photonic and Surface Effects in Patterned Hollow Sphere Colloidal Photonic Crystals. <i>Langmuir</i> , 2017, 33, 4840-4846.	3.5	23
18	Fabrication and directed assembly of magnetic Janus rods. <i>New Journal of Chemistry</i> , 2016, 40, 6541-6545.	2.8	22

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19	Bioinspired Robust Sealed Colloidal Photonic Crystals of Hollow Microspheres for Excellent Repellency against Liquid Infiltration and Ultrastable Photonic Band Gap. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600579.	3.7	19
20	Convergence of high order perturbative expansions in open system quantum dynamics. <i>Journal of Chemical Physics</i> , 2017, 146, 064102.	3.0	19
21	Single cycloparaphenylene molecule devices: Achieving large conductance modulation via tuning radial π -conjugation. <i>Science Advances</i> , 2021, 7, eabk3095.	10.3	19
22	Effects of Different Quantum Coherence on the Pump-Probe Polarization Anisotropy of Photosynthetic Light-Harvesting Complexes: A Computational Study. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1954-1960.	4.6	18
23	Visual detection of carbonate ions by inverse opal photonic crystal polymers in aqueous solution. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9524-9527.	5.5	18
24	A facile way to introduce planar defects into colloidal photonic crystals for pronounced passbands. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8829-8836.	5.5	17
25	Simulation of the Two-Dimensional Electronic Spectroscopy and Energy Transfer Dynamics of Light-Harvesting Complex II at Ambient Temperature. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4642-4652.	2.6	17
26	Modifying the symmetry of colloidal photonic crystals: a way towards complete photonic bandgap. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4100.	5.5	16
27	Direct Fabrication of Monodisperse Silica Nanorings from Hollow Spheres – A Template for Core-Shell Nanorings. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10451-10458.	8.0	16
28	Bioinspired Adaptive Microplate Arrays for Magnetically Tuned Optics. <i>Advanced Optical Materials</i> , 2017, 5, 1601043.	7.3	16
29	Synthesis of monodisperse ellipsoids with tunable aspect ratios. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 336, 29-34.	4.7	15
30	A time domain two-particle approximation to calculate the absorption and circular dichroism line shapes of molecular aggregates. <i>Journal of Chemical Physics</i> , 2015, 143, 064109.	3.0	15
31	An alternative realization of the exact non-Markovian stochastic Schrödinger equation. <i>Journal of Chemical Physics</i> , 2016, 144, 224105.	3.0	15
32	Composite microcapsules with enhanced mechanical stability and reduced active ingredient leakage. <i>Particuology</i> , 2016, 26, 40-46.	3.6	15
33	Theoretical study of photoinduced proton coupled electron transfer reaction using the non-perturbative hierarchical equations of motion method. <i>Journal of Chemical Physics</i> , 2017, 146, .	3.0	15
34	Tetrathiafulvalenes as anchors for building highly conductive and mechanically tunable molecular junctions. <i>Nature Communications</i> , 2022, 13, 1803.	12.8	15
35	Facile fabrication of micro-grooves based photonic crystals towards anisotropic angle-independent structural colors and polarized multiple reflections. <i>Science Bulletin</i> , 2017, 62, 938-942.	9.0	14
36	Modification of colloidal particles by unidirectional silica deposition for urchin-like morphologies. <i>RSC Advances</i> , 2016, 6, 32956-32959.	3.6	12

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37	Theoretical Study of Proton Coupled Electron Transfer Reactions: The Effect of Hydrogen Bond Bending Motion. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8104-8114.	2.6	10
38	A supramolecular photonic crystal hydrogel based on host-guest interactions for organic molecule recognition. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14718-14722.	5.5	9
39	A non-perturbative approach to simulate heterogeneous electron transfer dynamics: Effective mode treatment of the continuum electronic states. <i>Journal of Chemical Physics</i> , 2019, 150, 044109.	3.0	8
40	Low threshold photonic crystal lasing from a dye with high emission quantum yield and weak self-quenching. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6157.	5.5	7
41	Micro-patterning of 3D colloidal photonic crystals via solvent-assisted imprint lithography. <i>RSC Advances</i> , 2015, 5, 8509-8513.	3.6	7
42	Precisely Endowing Colloidal Particles with Silica Branches. <i>Scientific Reports</i> , 2019, 9, 8591.	3.3	7
43	Photochromic supramolecular photonic crystals based on host-guest interactions. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16925-16928.	5.5	7
44	Theoretical study of proton coupled electron transfer reaction in the light state of the AppA BLUF photoreceptor. <i>Journal of Computational Chemistry</i> , 2019, 40, 1005-1014.	3.3	6
45	Dual Modulation of Single Molecule Conductance via Tuning Side Chains and Electric Field with Conjugated Molecules Entailing Intramolecular π - π Interactions. <i>Advanced Science</i> , 2022, 9, e2105667. ^{11.2}		6
46	Bioinspired Microplate Arrays for Magnetically Tuned Dynamic Color. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	6
47	Selective Transport of Alkali-Metal Cations through Liquid Membranes by Non-Cyclic Carriers. <i>Chinese Journal of Chemistry</i> , 2002, 20, 90-95.	4.9	5
48	Tunable amplified spontaneous emission based on liquid magnetically responsive photonic crystals. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3740-3743.	5.5	5
49	Substitution pattern controlled charge transport in BN-embedded aromatics-based single molecule junctions. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 2227-2233.	2.8	5
50	Linear and Nonlinear Spectra in Photosynthetic Light Harvesting Complexes: Benchmark Tests of Modified Redfield Method. <i>Chinese Journal of Chemical Physics</i> , 2015, 28, 431-439.	1.3	3
51	Preparation and enhanced catalytic activity of amphiphilic rambutan-like micro-reactors. <i>RSC Advances</i> , 2015, 5, 74362-74365.	3.6	3
52	Theoretical study of vibrational energy transfer of free OH groups at the water-air interface. <i>Journal of Chemical Physics</i> , 2016, 144, 144701.	3.0	3
53	Effect of Pulse Shaping on Observing Coherent Energy Transfer in Single Light-Harvesting Complexes. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11637-11643.	2.6	3
54	Mixed quantum-classical simulation of the hydride transfer reaction catalyzed by dihydrofolate reductase based on a mapped system-harmonic bath model. <i>Journal of Chemical Physics</i> , 2018, 148, 102322.	3.0	3

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55	Epitaxial growth of bulky calcite inverse opal induced by a single crystalline calcite substrate. CrystEngComm, 2014, 16, 7617.	2.6	1
56	Lithography: Electrowetting-Induced Morphological Evolution of Metal-Organic Inverse Opals toward a Water-Lithography Approach (Adv. Funct. Mater. 7/2017). Advanced Functional Materials, 2017, 27, .	14.9	1