

De-Sheng Liu

List of Publications by Year in descending order

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papers

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of gas molecules on a manganese phthalocyanine molecular device and its possibility as a gas sensor. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2048-2056.	1.3	40
2	Enhanced photocatalysis for water splitting in layered tin chalcogenides with high carrier mobility. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7559-7566.	1.3	36
3	Bloch oscillations in a one-dimensional organic lattice. <i>Physical Review B</i> , 2006, 74, .	1.1	30
4	Design of a noble-metal-free direct Z-scheme photocatalyst for overall water splitting based on a SnC/SnSSe van der Waals heterostructure. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 21641-21651.	1.3	30
5	The electronic transport properties of zigzag silicene nanoribbon slices with edge hydrogenation and oxidation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11513-11519.	1.3	26
6	Intrachain polaron motion and geminate combination in donor-acceptor copolymers: Effects of level offset and interfacial coupling. <i>Physical Review B</i> , 2008, 78, .	1.1	25
7	A bifunctional GeC/SnSSe heterostructure for highly efficient photocatalysts and photovoltaic devices. <i>Nanoscale</i> , 2022, 14, 7292-7302.	2.8	24
8	High mobility and enhanced photoelectric performance of two-dimensional ternary compounds NaCuX (X = S, Se, and Te). <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2475-2482.	1.3	22
9	Chemically Functionalized Penta-stanene Monolayers for Light Harvesting with High Carrier Mobility. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21763-21769.	1.5	18
10	Exotic magnetism in As-doped $\sqrt{2} \times \sqrt{2} \times \sqrt{3}$ monolayers with tunable anisotropic carrier mobility. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19234-19241.	1.3	18
11	Large room-temperature valley polarization by valley-selective switching of exciton ground state. <i>Physical Review B</i> , 2020, 101, .	1.1	18
12	Edge hydrogenation-induced spin-filtering and negative differential resistance effects in zigzag silicene nanoribbons with line defects. <i>RSC Advances</i> , 2017, 7, 25244-25252.	1.7	17
13	First principles study of photoelectrochemical water splitting in monolayer Sn ₂ S ₂ P ₄ with high solar-to-hydrogen efficiency. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	17
14	Prediction of crossing nodal-lines and large intrinsic spin Hall conductivity in topological Dirac semimetal Ta ₃ As family. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	14
15	Creation of half-metallic π -orbital Dirac fermion with superlight elements in orbital-designed molecular lattice. <i>Physical Review B</i> , 2017, 96, .	1.1	10
16	Effect of atomic disorder or chain length on the stability of photoinduced polarization inversion. <i>Journal of Chemical Physics</i> , 2002, 116, 6760-6763.	1.2	8
17	Rational Design of Reversible Molecular Photoswitches Based on Diarylethene Molecules. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2736-2745.	1.5	8
18	A possible salicylideneanilines-based optical molecular switch induced by a reversible hydrogen transfer: an <i>ab initio</i> study. <i>Molecular Physics</i> , 2011, 109, 209-215.	0.8	7

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19	Tuning spin-filtering, rectifying, and negative differential resistance by hydrogenation on topological edge defects of zigzag silicene nanoribbons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 2475-2483.	0.9	7
20	Effect of the orientation of nitro group on the electronic transport properties in single molecular field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 832-836.	1.3	6
21	Electronic transport properties of a dithienylethene-based polymer with different metallic contacts. <i>RSC Advances</i> , 2014, 4, 40941-40950.	1.7	6
22	Impact of interface types on spin transport in heterostructures of graphene/hexagonal boron-nitride nanoribbons. <i>Organic Electronics</i> , 2018, 58, 63-68.	1.4	6
23	Giant and robust intrinsic spin Hall effects in metal dihydrides: A first-principles prediction. <i>Physical Review B</i> , 2021, 103, .	1.1	6
24	Robust Topological Nodal-Line Semimetals from Periodic Vacancies in Two-Dimensional Materials. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5710-5715.	2.1	6
25	Role of edge dehydrogenation in magnetization and spin transport of zigzag graphene nanoribbons with line defects. <i>Organic Electronics</i> , 2015, 27, 212-220.	1.4	5
26	Electronic Transport of a Molecular Photoswitch with Graphene Nanoribbon Electrodes. <i>Chinese Physics Letters</i> , 2014, 31, 057304.	1.3	4
27	Dynamical Simulations of Polaron Spin-Filtering and Rectification in an Organic Magneticâ€”Nonmagnetic Co-oligomer: The Interfacial Effect. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14432-14438.	1.5	4
28	Spin-polarized current in wide bandgap hexagonal boron nitrides containing 4 8 line defects. <i>Computational Materials Science</i> , 2020, 183, 109799.	1.4	4
29	Spin transport properties in Fe-doped graphene/hexagonal boron-nitride nanoribbons heterostructures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 2217-2222.	0.9	3
30	Lateral scaling and positioning effects of top-gate electrodes on single-molecule field-effect transistors. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 285302.	0.7	2
31	Rational design of [i>e</i>]-fusion induced high-performance DHP/CPD based photoswitches. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26255-26264.	1.3	2
32	EFFECT OF TORSION ANGLE IN 4,4â€²-BIPHENYLDITHIOL FUNCTIONALIZED MOLECULAR JUNCTION. <i>International Journal of Modern Physics B</i> , 2011, 25, 699-710.	1.0	1
33	Rational design of magnetic semiconductors of longitudinal silicene/III-V compound heteronanoribbons. <i>Applied Surface Science</i> , 2020, 501, 144230.	3.1	1
34	Theoretical Simulations of Heavy-Atom Kinetic Isotope Effects in Aliphatic Claisen Rearrangement. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10678-10686.	1.1	1