

Leighton Jones

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,312
citations

394421

19
h-index

361022

35
g-index

50
all docs

50
docs citations

50
times ranked

1354
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystallography, Morphology, Electronic Structure, and Transport in Non-Fullerene/Non-Indacenodithienothiophene Polymer:Y6 Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 14532-14547.	13.7	214
2	Systematic Merging of Nonfullerene Acceptor π -Extension and Tetrafluorination Strategies Affords Polymer Solar Cells with $>16\%$ Efficiency. <i>Journal of the American Chemical Society</i> , 2021, 143, 6123-6139.	13.7	125
3	Two-photon excited deep-red and near-infrared emissive organic co-crystals. <i>Nature Communications</i> , 2020, 11, 4633.	12.8	82
4	Embedding Methods for Quantum Chemistry: Applications from Materials to Life Sciences. <i>Journal of the American Chemical Society</i> , 2020, 142, 3281-3295.	13.7	81
5	Fluorinating π -Extended Molecular Acceptors Yields Highly Connected Crystal Structures and Low Reorganization Energies for Efficient Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2000635.	19.5	78
6	Non-fullerene acceptors with direct and indirect hexa-fluorination afford $>17\%$ efficiency in polymer solar cells. <i>Energy and Environmental Science</i> , 2022, 15, 645-659.	30.8	65
7	Plasma-driven solution electrolysis. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	58
8	Ring-in-Ring(s) Complexes Exhibiting Tunable Multicolor Photoluminescence. <i>Journal of the American Chemical Society</i> , 2020, 142, 16849-16860.	13.7	52
9	Single-Molecule Charge Transport through Positively Charged Electrostatic Anchors. <i>Journal of the American Chemical Society</i> , 2021, 143, 2886-2895.	13.7	43
10	Building Blocks for High-Efficiency Organic Photovoltaics: Interplay of Molecular, Crystal, and Electronic Properties in Post-Fullerene ITIC Ensembles. <i>ChemPhysChem</i> , 2019, 20, 2608-2626.	2.1	42
11	Regiospecific <i>N</i> -alkyl substitution tunes the molecular packing of high-performance non-fullerene acceptors. <i>Materials Horizons</i> , 2022, 9, 403-410.	12.2	42
12	High-Efficiency Gold Recovery Using Cucurbit[6]uril. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38768-38777.	8.0	41
13	Selective Separation of Hexachloroplatinate(IV) Dianions Based on Exo- π -Binding with Cucurbit[6]uril. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17587-17594.	13.8	30
14	Selective Separation of Lithium Chloride by Organogels Containing Strapped Calix[4]pyrroles. <i>Journal of the American Chemical Society</i> , 2021, 143, 20403-20410.	13.7	28
15	Radical Cyclic [3]Daisy Chains. <i>Chem</i> , 2021, 7, 174-189.	11.7	26
16	PCage: Fluorescent Molecular Temples for Binding Sugars in Water. <i>Journal of the American Chemical Society</i> , 2021, 143, 15688-15700.	13.7	23
17	Pressure-Induced Optical Transitions in Metal Nanoclusters. <i>ACS Nano</i> , 2020, 14, 11888-11896.	14.6	22
18	Supramolecular Gold Stripping from Activated Carbon Using β -Cyclodextrin. <i>Journal of the American Chemical Society</i> , 2021, 143, 1984-1992.	13.7	22

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19	An <i>In Silico</i> Study on the Isomers of Pentacene: The Case for Air-Stable and Alternative C ₂₂ H ₁₄ Acenes for Organic Electronics. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2804-2813.	2.5	19
20	Control of Charge Carriers and Band Structure in 2D Monolayer Molybdenum Disulfide via Covalent Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4607-4615.	8.0	19
21	Modeling a halogen dance reaction mechanism: A density functional theory study. <i>Journal of Computational Chemistry</i> , 2016, 37, 1697-1703.	3.3	15
22	Discrete Open-Shell Tris(bipyridinium radical cationic) Inclusion Complexes in the Solid State. <i>Journal of the American Chemical Society</i> , 2021, 143, 163-175.	13.7	15
23	Charge Transport and Thermoelectric Properties of Carbon Sulfide Nanobelts in Single-Molecule Sensors. <i>Chemistry of Materials</i> , 2019, 31, 6506-6518.	6.7	14
24	Thermodynamics and Mechanism of a Photocatalyzed Stereoselective [2 + 2] Cycloaddition on a CdSe Quantum Dot. <i>Journal of the American Chemical Society</i> , 2020, 142, 15488-15495.	13.7	13
25	Synthesis and Structure-Activity Characterization of a Single-Site MoO ₂ Catalytic Center Anchored on Reduced Graphene Oxide. <i>Journal of the American Chemical Society</i> , 2021, 143, 21532-21540.	13.7	13
26	Are Transport Models Able To Predict Charge Carrier Mobilities in Organic Semiconductors?. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29499-29512.	3.1	12
27	A contorted nanographene shelter. <i>Nature Communications</i> , 2021, 12, 5191.	12.8	12
28	Quantum Interference and Substantial Property Tuning in Conjugated <i>ortho</i> -Regio-Resistive Organic (ZORRO) Junctions. <i>Nano Letters</i> , 2019, 19, 8956-8963.	9.1	10
29	Domain Separation in Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4785-4795.	2.5	10
30	Germanium Fluoride Nanocages as Optically Transparent n-Type Materials and Their Endohedral Metallofullerene Derivatives. <i>Journal of the American Chemical Society</i> , 2019, 141, 1672-1684.	13.7	10
31	Molecular Junctions Inspired by Nature: Electrical Conduction through Noncovalent Nanobelts. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8096-8102.	2.6	9
32	Synthesis and Characterization of Tellurium Catecholates and Their <i>N</i> -Oxide Adducts. <i>Inorganic Chemistry</i> , 2021, 60, 3460-3470.	4.0	8
33	Oxygen, sulfur and selenium terminated single-walled heterocyclic carbon nanobelts (SWHNBs) as potential 3D organic semiconductors. <i>Nanoscale</i> , 2018, 10, 7639-7648.	5.6	7
34	Photophysical implications of ring fusion, linker length, and twisting angle in a series of peryleneimide-thienoacene dimers. <i>Chemical Science</i> , 2020, 11, 7133-7143.	7.4	6
35	A theoretical study on the isomers of the B5TB heteroacene for improved semiconductor properties in organic electronics. <i>Computational and Theoretical Chemistry</i> , 2017, 1115, 22-29.	2.5	5
36	Synthesis and Characterisation of Fused Heterocyclic Molecular Rods: A Combined Experimental and Theoretical Study on Diethynyl Dithienothiophenyl Derivatives. <i>ChemistrySelect</i> , 2017, 2, 5958-5964.	1.5	5

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37	Selective Separation of Hexachloroplatinate(IV) Dianions Based on Exo-binding with Cucurbit[6]uril. <i>Angewandte Chemie</i> , 2021, 133, 17728-17735.	2.0	5
38	Quantum embedding for material chemistry based on domain separation and open subsystems. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26184.	2.0	4
39	Orbital Control and Coherent Charge Transport in Transition Metal Platinum(II)–Platinum(II) Lantern Complexes in Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3233-3241.	3.1	4
40	Second Linear Response Theory and the Analytic Calculation of Excited-State Properties. <i>Journal of Physical Chemistry A</i> , 2021, 125, 1093-1102.	2.5	4
41	Multipurpose made colorimetric materials for amines, pH change and metal ion detection. <i>RSC Advances</i> , 2022, 12, 2684-2692.	3.6	4
42	Late to the Party: Synthesis and Characterization of Tellurium and Selenium Half-Sandwich Complexes. <i>Organometallics</i> , 2021, 40, 4104-4109.	2.3	4
43	Atomic-Scale View of Redox Induced Changes for Monolayer MoO _x on $\sqrt{2} \times \sqrt{2}$ -TiO ₂ (110) with Chemical-State Sensitivity. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5304-5309.	4.6	4
44	Development of formalisms based on locally coupled open subsystems for calculations in molecular electronic structure and dynamics. <i>Physical Review A</i> , 2018, 98, .	2.5	3
45	Identification of the most stable silver cluster ions produced under plasma solution conditions. <i>Molecular Physics</i> , 2021, 119, .	1.7	3
46	Localized π Surface States on 2D Molybdenum Disulfide from Carbene-Functionalization as a Qubit Design Strategy. <i>ACS Physical Chemistry Au</i> , 0, , .	4.0	1
47	A bifunctional smart material: the synthesis of a metal-free black pigment for optoelectronic applications from an organic semiconducting molecular rod. <i>Pigment and Resin Technology</i> , 2018, 47, 14-28.	0.9	0
48	Atom vacancies and electronic transmission Stark effects in boron nanoflake junctions. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15208-15218.	5.5	0
49	Domain Separated Density Functional Theory for Reaction Energy Barriers and Optical Excitations. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5954-5962.	2.5	0
50	Atomic-Site-Specific Surface Valence-Band Structure from X-Ray Standing-Wave Excited Photoemission. <i>Physical Review Letters</i> , 2022, 128, .	7.8	0