

# Leighton Jones

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/793046/publications.pdf>

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	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
2	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
3	Multipurpose made colorimetric materials for amines, pH change and metal ion detection. <i>RSC Advances</i> , 2022, 12, 2684-2692.	3.6	4
4	Atomic-Site-Specific Surface Valence-Band Structure from X-Ray Standing-Wave Excited Photoemission. <i>Physical Review Letters</i> , 2022, 128, .	7.8	0
5	Atomic-Scale View of Redox Induced Changes for Monolayer MoO <sub>x</sub> on $\text{TiO}_2(110)$ with Chemical-State Sensitivity. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5304-5309.	4.6	4
6	Radical Cyclic [3]Daisy Chains. <i>CheM</i> , 2021, 7, 174-189.	11.7	26
7	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
8	Single-Molecule Charge Transport through Positively Charged Electrostatic Anchors. <i>Journal of the American Chemical Society</i> , 2021, 143, 2886-2895.	13.7	43
9	Synthesis and Characterization of Tellurium Catecholates and Their <i>N</i> -Oxide Adducts. <i>Inorganic Chemistry</i> , 2021, 60, 3460-3470.	4.0	8
10	Systematic Merging of Nonfullerene Acceptor $\pi$ -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
11	Plasma-driven solution electrolysis. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	58
12	Selective Separation of Hexachloroplatinate(IV) Dianions Based on Exo- $\pi$ -Binding with Cucurbit[6]uril. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17587-17594.	13.8	30
13	Selective Separation of Hexachloroplatinate(IV) Dianions Based on Exo- $\pi$ -Binding with Cucurbit[6]uril. <i>Angewandte Chemie</i> , 2021, 133, 17728-17735.	2.0	5
14	A contorted nanographene shelter. <i>Nature Communications</i> , 2021, 12, 5191.	12.8	12
15	Identification of the most stable silver cluster ions produced under plasma solution conditions. <i>Molecular Physics</i> , 2021, 119, .	1.7	3
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	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
18	Supramolecular Gold Stripping from Activated Carbon Using $\beta$ -Cyclodextrin. <i>Journal of the American Chemical Society</i> , 2021, 143, 1984-1992.	13.7	22

#	ARTICLE	IF	CITATIONS
19	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
20	Synthesis and Structure-Activity Characterization of a Single-Site MoO <sub>2</sub> Catalytic Center Anchored on Reduced Graphene Oxide. <i>Journal of the American Chemical Society</i> , 2021, 143, 21532-21540.	13.7	13
21	Late to the Party: Synthesis and Characterization of Tellurium and Selenium Half-Sandwich Complexes. <i>Organometallics</i> , 2021, 40, 4104-4109.	2.3	4
22	Control of Charge Carriers and Band Structure in 2D Monolayer Molybdenum Disulfide via Covalent Functionalization. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 4607-4615.	8.0	19
23	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
24	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
25	Pressure-Induced Optical Transitions in Metal Nanoclusters. <i>ACS Nano</i> , 2020, 14, 11888-11896.	14.6	22
26	Ring-in-Ring(s) Complexes Exhibiting Tunable Multicolor Photoluminescence. <i>Journal of the American Chemical Society</i> , 2020, 142, 16849-16860.	13.7	52
27	Two-photon excited deep-red and near-infrared emissive organic co-crystals. <i>Nature Communications</i> , 2020, 11, 4633.	12.8	82
28	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
29	Fluorinating 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
30	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
31	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
32	High-Efficiency Gold Recovery Using Cucurbit[6]uril. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 38768-38777.	8.0	41
33	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
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Building Blocks for High-Efficiency Organic Photovoltaics: Interplay of Molecular, Crystal, and Electronic Properties in Post- <i>ortho</i> -Regio-Resistive Organic (ZORRO) Junctions. <i>ChemPhysChem</i> , 2019, 20, 2608-2626.	2.1	42
39	Molecular Junctions Inspired by Nature: Electrical Conduction through Noncovalent Nanobelts. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8096-8102.	2.6	9
40	Domain Separation in Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4785-4795.	2.5	10
41	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
42	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
43	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
44	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
45	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
46	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
47	An <i>In Silico</i> Study on the Isomers of Pentacene: The Case for Air-Stable and Alternative C <sub>22</sub> H <sub>14</sub> Acenes for Organic Electronics. <i>Journal of Physical Chemistry A</i> , 2017, 121, 2804-2813.	2.5	19
48	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
49	Modeling a halogen dance reaction mechanism: A density functional theory study. <i>Journal of Computational Chemistry</i> , 2016, 37, 1697-1703.	3.3	15
50	Localized $\pi$ Surface States on 2D Molybdenum Disulfide from Carbene-Functionalization as a Qubit Design Strategy. <i>ACS Physical Chemistry Au</i> , 0, .	4.0	1