

Steven D Lacey

List of Publications by Year in descending order

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35
papers

7,072
citations

172207

29
h-index

360668

35
g-index

35
all docs

35
docs citations

35
times ranked

10721
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbothermal shock synthesis of high-entropy-alloy nanoparticles. <i>Science</i> , 2018, 359, 1489-1494.	6.0	1,065
2	Toward garnet electrolyte-based Li metal batteries: An ultrathin, highly effective, artificial solid-state electrolyte/metallic Li interface. <i>Science Advances</i> , 2017, 3, e1601659.	4.7	647
3	Graphene Oxide-Based Electrode Inks for 3D-Printed Lithium-Ion Batteries. <i>Advanced Materials</i> , 2016, 28, 2587-2594.	11.1	590
4	Transition from Superlithiophobicity to Superlithiophilicity of Garnet Solid-State Electrolyte. <i>Journal of the American Chemical Society</i> , 2016, 138, 12258-12262.	6.6	548
5	Tree-Inspired Design for High-Efficiency Water Extraction. <i>Advanced Materials</i> , 2017, 29, 1704107.	11.1	494
6	Organic electrode for non-aqueous potassium-ion batteries. <i>Nano Energy</i> , 2015, 18, 205-211.	8.2	397
7	Mesoporous, Three-Dimensional Wood Membrane Decorated with Nanoparticles for Highly Efficient Water Treatment. <i>ACS Nano</i> , 2017, 11, 4275-4282.	7.3	392
8	Tuning two-dimensional nanomaterials by intercalation: materials, properties and applications. <i>Chemical Society Reviews</i> , 2016, 45, 6742-6765.	18.7	363
9	Cellulose ionic conductors with high differential thermal voltage for low-grade heat harvesting. <i>Nature Materials</i> , 2019, 18, 608-613.	13.3	343
10	Nanocellulose as green dispersant for two-dimensional energy materials. <i>Nano Energy</i> , 2015, 13, 346-354.	8.2	270
11	Extrusion-Based 3D Printing of Hierarchically Porous Advanced Battery Electrodes. <i>Advanced Materials</i> , 2018, 30, e1705651.	11.1	241
12	Reduced graphene oxide film with record-high conductivity and mobility. <i>Materials Today</i> , 2018, 21, 186-192.	8.3	182
13	Ultrahigh-Capacity Lithium-Oxygen Batteries Enabled by Dry-Pressed Holey Graphene Air Cathodes. <i>Nano Letters</i> , 2017, 17, 3252-3260.	4.5	132
14	High-throughput, combinatorial synthesis of multimetallic nanoclusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6316-6322.	3.3	119
15	Atomic Force Microscopy Studies on Molybdenum Disulfide Flakes as Sodium-Ion Anodes. <i>Nano Letters</i> , 2015, 15, 1018-1024.	4.5	113
16	Coherent Plasmon-Exciton Coupling in Silver Platelet-J-aggregate Nanocomposites. <i>Nano Letters</i> , 2015, 15, 2588-2593.	4.5	98
17	Thermoelectric properties and performance of flexible reduced graphene oxide films up to 3,000 K. <i>Nature Energy</i> , 2018, 3, 148-156.	19.8	96
18	Hybridizing wood cellulose and graphene oxide toward high-performance fibers. <i>NPG Asia Materials</i> , 2015, 7, e150-e150.	3.8	95

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19	Stable Multimetallic Nanoparticles for Oxygen Electrocatalysis. <i>Nano Letters</i> , 2019, 19, 5149-5158.	4.5	94
20	Textile Inspired Lithium-Oxygen Battery Cathode with Decoupled Oxygen and Electrolyte Pathways. <i>Advanced Materials</i> , 2018, 30, 1704907.	11.1	92
21	Free-Standing $\text{Na}_{2/3}\text{Fe}_{1/2}\text{Mn}_{1/2}\text{O}_2$ @Graphene Film for a Sodium-Ion Battery Cathode. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4242-4247.	4.0	88
22	Highly Anisotropic Conductors. <i>Advanced Materials</i> , 2017, 29, 1703331.	11.1	80
23	Transient Rechargeable Batteries Triggered by Cascade Reactions. <i>Nano Letters</i> , 2015, 15, 4664-4671.	4.5	77
24	Dry-Processed, Binder-Free Holey Graphene Electrodes for Supercapacitors with Ultrahigh Areal Loadings. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29478-29485.	4.0	76
25	Two dimensional silicon nanowalls for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6051-6057.	5.2	70
26	Rapid, in Situ Synthesis of High Capacity Battery Anodes through High Temperature Radiation-Based Thermal Shock. <i>Nano Letters</i> , 2016, 16, 5553-5558.	4.5	67
27	Scalable Dry Processing of Binder-Free Lithium-Ion Battery Electrodes Enabled by Holey Graphene. <i>ACS Applied Energy Materials</i> , 2019, 2, 2990-2997.	2.5	55
28	Highly compressible, binderless and ultrathick holey graphene-based electrode architectures. <i>Nano Energy</i> , 2017, 31, 386-392.	8.2	39
29	<i>In Situ</i> High Temperature Synthesis of Single-Component Metallic Nanoparticles. <i>ACS Central Science</i> , 2017, 3, 294-301.	5.3	34
30	Universal, In Situ Transformation of Bulky Compounds into Nanoscale Catalysts by High-Temperature Pulse. <i>Nano Letters</i> , 2017, 17, 5817-5822.	4.5	29
31	Ultrafast, Controllable Synthesis of Sub-Nano Metallic Clusters through Defect Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29773-29779.	4.0	28
32	Holey Carbon Nanotubes from Controlled Air Oxidation. <i>Advanced Functional Materials</i> , 2017, 27, 1700762.	7.8	21
33	Inverted battery design as ion generator for interfacing with biosystems. <i>Nature Communications</i> , 2017, 8, 15609.	5.8	21
34	Controlling the morphology of indium tin oxide using PEG-assisted hydrothermal synthesis. <i>Materials Letters</i> , 2014, 117, 108-111.	1.3	10
35	Rapid Dissolving-Debonding Strategy for Optically Transparent Paper Production. <i>Scientific Reports</i> , 2016, 5, 17703.	1.6	6