

Brian C Olsen

List of Publications by Year in descending order

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38
papers

5,320
citations

331259

21
h-index

329751

37
g-index

38
all docs

38
docs citations

38
times ranked

8459
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoporous nitrogen-rich carbons derived from protein for ultra-high capacity battery anodes and supercapacitors. <i>Energy and Environmental Science</i> , 2013, 6, 871.	15.6	983
2	Interconnected Carbon Nanosheets Derived from Hemp for Ultrafast Supercapacitors with High Energy. <i>ACS Nano</i> , 2013, 7, 5131-5141.	7.3	869
3	Carbon Nanosheet Frameworks Derived from Peat Moss as High Performance Sodium Ion Battery Anodes. <i>ACS Nano</i> , 2013, 7, 11004-11015.	7.3	813
4	Carbonized Chicken Eggshell Membranes with 3D Architectures as High-Performance Electrode Materials for Supercapacitors. <i>Advanced Energy Materials</i> , 2012, 2, 431-437.	10.2	573
5	Graphene-nickel cobaltite nanocomposite asymmetrical supercapacitor with commercial level mass loading. <i>Nano Research</i> , 2012, 5, 605-617.	5.8	356
6	Hybrid Device Employing Three-Dimensional Arrays of MnO in Carbon Nanosheets Bridges Battery-Supercapacitor Divide. <i>Nano Letters</i> , 2014, 14, 1987-1994.	4.5	276
7	How To Optimize Materials and Devices <i>via</i> Design of Experiments and Machine Learning: Demonstration Using Organic Photovoltaics. <i>ACS Nano</i> , 2018, 12, 7434-7444.	7.3	219
8	Supercapacitive Properties of Hydrothermally Synthesized Co ₃ O ₄ Nanostructures. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17599-17605.	1.5	179
9	High Rate Electrochemical Capacitors from Three-Dimensional Arrays of Vanadium Nitride Functionalized Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24381-24393.	1.5	145
10	Sn-Bi-Sb alloys as anode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9661-9670.	5.2	124
11	Redox Flow Batteries: How to Determine Electrochemical Kinetic Parameters. <i>ACS Nano</i> , 2020, 14, 2575-2584.	7.3	118
12	Nanopatterning via Solvent Vapor Annealing of Block Copolymer Thin Films. <i>Chemistry of Materials</i> , 2017, 29, 176-188.	3.2	94
13	Î ² -SnSb for Sodium Ion Battery Anodes: Phase Transformations Responsible for Enhanced Cycling Stability Revealed by In Situ TEM. <i>ACS Energy Letters</i> , 2018, 3, 1670-1676.	8.8	90
14	Role of Interfacial Layers in Organic Solar Cells: Energy Level Pinning versus Phase Segregation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18238-18248.	4.0	57
15	Sb-Si Alloys and Multilayers for Sodium-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , 2019, 2, 2205-2213.	2.5	52
16	Nickel/Iron Oxide Nanocrystals with a Nonequilibrium Phase: Controlling Size, Shape, and Composition. <i>Chemistry of Materials</i> , 2014, 26, 4796-4804.	3.2	34
17	Solid-state dewetting mechanisms of ultrathin Ni films revealed by combining <i>in situ</i> time resolved differential reflectometry monitoring and atomic force microscopy. <i>Physical Review B</i> , 2010, 82, .	1.1	31
18	Nanoscale Plasmonic Stamp Lithography on Silicon. <i>ACS Nano</i> , 2015, 9, 2184-2193.	7.3	25

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19	UV-Initiated S, Se, and Te Bond Formation on Si(111): Coverage, Mechanism, and Electronics. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13803-13814.	1.5	25
20	Bipolar Resistive Switching in Junctions of Gallium Oxide and p-type Silicon. <i>Nano Letters</i> , 2021, 21, 2666-2674.	4.5	24
21	Stabilizing Tin Anodes in Sodium-Ion Batteries by Alloying with Silicon. <i>ACS Applied Energy Materials</i> , 2020, 3, 9950-9962.	2.5	23
22	Optimization of the Bulk Heterojunction of All-Small-Molecule Organic Photovoltaics Using Design of Experiment and Machine Learning Approaches. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54596-54607.	4.0	22
23	Substance over Subjectivity: Moving beyond the Histogram. <i>Chemistry of Materials</i> , 2016, 28, 5973-5975.	3.2	21
24	Preferential Alignment of Incommensurate Block Copolymer Dot Arrays Forming Moiré Superstructures. <i>ACS Nano</i> , 2017, 11, 3237-3246.	7.3	21
25	Alternating Silicon and Carbon Multilayer-Structured Anodes Suppress Formation of the c-Li _{3.75} /Si Phase. <i>Chemistry of Materials</i> , 2019, 31, 6578-6589.	3.2	19
26	Sequential Nanopatterned Block Copolymer Self-Assembly on Surfaces. <i>Langmuir</i> , 2016, 32, 5890-5898.	1.6	17
27	Understanding the Effects of a High Surface Area Nanostructured Indium Tin Oxide Electrode on Organic Solar Cell Performance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38706-38715.	4.0	14
28	Understanding the Mechanism of Enhanced Cycling Stability in Sn-Sb Composite Na-Ion Battery Anodes: Operando Alloying and Diffusion Barriers. <i>ACS Applied Energy Materials</i> , 2019, 2, 5133-5139.	2.5	14
29	Polymers, Plasmons, and Patterns: Mechanism of Plasmon-Induced Hydrosilylation on Silicon. <i>Chemistry of Materials</i> , 2016, 28, 9158-9168.	3.2	13
30	Solvent Vapor Annealing, Defect Analysis, and Optimization of Self-Assembly of Block Copolymers Using Machine Learning Approaches. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28639-28649.	4.0	12
31	Carbonized Chicken Eggshell Membranes with 3D Architectures as High-Performance Electrode Materials for Supercapacitors (<i>Adv. Energy Mater.</i> 4/2012). <i>Advanced Energy Materials</i> , 2012, 2, 430-430.	10.2	10
32	Adhesion and Surface Layers on Silicon Anodes Suppress Formation of c-Li _{3.75} /Si and Solid-Electrolyte Interphase. <i>ACS Applied Energy Materials</i> , 2020, 3, 1609-1616.	2.5	10
33	Water-soluble pH-switchable cobalt complexes for aqueous symmetric redox flow batteries. <i>Chemical Communications</i> , 2020, 56, 3605-3608.	2.2	9
34	Vapor-Phase Nanopatterning of Aminosilanes with Electron Beam Lithography: Understanding and Minimizing Background Functionalization. <i>Langmuir</i> , 2018, 34, 4780-4792.	1.6	8
35	Plasmonic Stamps Fabricated by Gold Dewetting on PDMS for Catalyzing Hydrosilylation on Silicon Surfaces. <i>ACS Applied Nano Materials</i> , 2019, 2, 3238-3245.	2.4	8
36	van der Waals Epitaxy of Soft Twisted Bilayers: Lattice Relaxation and Mass Density Waves. <i>ACS Nano</i> , 2020, 14, 13441-13450.	7.3	8

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37	Beyond Thin Films: Clarifying the Impact of <i>Li₁₅Si₄</i> Formation in Thin Film, Nanoparticle, and Porous Si Electrodes. ACS Applied Materials & Interfaces, 2021, 13, 38147-38160.	4.0	4
38	Kinetics of Plasmon-Driven Hydrosilylation of Silicon Surfaces: Photogenerated Charges Drive Silicon-Carbon Bond Formation. Journal of Physical Chemistry C, 2021, 125, 17983-17992.	1.5	0