Bruce W Arey

List of Publications by Year in descending order

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186265 175258 4,768 52 28 52 h-index citations g-index papers 53 53 53 6062 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Monolithic solid–electrolyte interphases formed in fluorinated orthoformate-based electrolytes minimize Li depletion and pulverization. Nature Energy, 2019, 4, 796-805.	39.5	621
2	Enabling High-Voltage Lithium-Metal Batteries under Practical Conditions. Joule, 2019, 3, 1662-1676.	24.0	598
3	Facile synthesized nanorod structured vanadium pentoxide for high-rate lithium batteries. Journal of Materials Chemistry, 2010, 20, 9193.	6.7	316
4	In Situ One-Step Synthesis of Hierarchical Nitrogen-Doped Porous Carbon for High-Performance Supercapacitors. ACS Applied Materials & Supercapacitors.	8.0	306
5	Hydrothermal Dehydration of Aqueous Fructose Solutions in a Closed System. Journal of Physical Chemistry C, 2007, 111, 15141-15145.	3.1	266
6	Role of inner solvation sheath within salt–solvent complexes in tailoring electrode/electrolyte interphases for lithium metal batteries. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28603-28613.	7.1	191
7	Nano-structured Li3V2(PO4)3/carbon composite for high-rate lithium-ion batteries. Electrochemistry Communications, 2010, 12, 1674-1677.	4.7	173
8	Imaging Hydrated Microbial Extracellular Polymers: Comparative Analysis by Electron Microscopy. Applied and Environmental Microbiology, 2011, 77, 1254-1262.	3.1	168
9	Advanced Electrolytes for Fastâ€Charging Highâ€Voltage Lithiumâ€Ion Batteries in Wideâ€Temperature Range. Advanced Energy Materials, 2020, 10, 2000368.	19.5	159
10	Determining the location and nearest neighbours of aluminium in zeolites with atom probe tomography. Nature Communications, 2015, 6, 7589.	12.8	139
11	Hydrothermal Syntheses of Colloidal Carbon Spheres from Cyclodextrins. Journal of Physical Chemistry C, 2008, 112, 14236-14240.	3.1	131
12	Effects of fluorinated solvents on electrolyte solvation structures and electrode/electrolyte interphases for lithium metal batteries. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118 , .	7.1	131
13	Designing Advanced In Situ Electrode/Electrolyte Interphases for Wide Temperature Operation of 4.5 V Li LiCoO ₂ Batteries. Advanced Materials, 2020, 32, e2004898.	21.0	123
14	Nanosheet-structured LiV3O8 with high capacity and excellent stability for high energy lithium batteries. Journal of Materials Chemistry, 2011, 21, 10077.	6.7	112
15	Nonflammable Electrolytes for Lithium Ion Batteries Enabled by Ultraconformal Passivation Interphases. ACS Energy Letters, 2019, 4, 2529-2534.	17.4	112
16	Template free synthesis of LiV ₃ O ₈ nanorods as a cathode material for high-rate secondary lithium batteries. Journal of Materials Chemistry, 2011, 21, 1153-1161.	6.7	105
17	High-rate cathodes based on Li3V2(PO4)3 nanobelts prepared via surfactant-assisted fabrication. Journal of Power Sources, 2011, 196, 3646-3649.	7.8	100
18	Reaction of water-saturated supercritical CO2 with forsterite: Evidence for magnesite formation at low temperatures. Geochimica Et Cosmochimica Acta, 2012, 91, 271-282.	3.9	97

#	Article	IF	CITATIONS
19	Uranium in Framboidal Pyrite from a Naturally Bioreduced Alluvial Sediment. Environmental Science & En	10.0	85
20	Chemically Active, Porous 3D-Printed Thermoplastic Composites. ACS Applied Materials & Composites. ACS Applied Materials & Composites &	8.0	73
21	Optimization of fluorinated orthoformate based electrolytes for practical high-voltage lithium metal batteries. Energy Storage Materials, 2021, 34, 76-84.	18.0	65
22	Reactive Ballistic Deposition of Porous TiO2Films:  Growth and Characterization. Journal of Physical Chemistry C, 2007, 111, 4765-4773.	3.1	56
23	Direct observation of ice nucleation events on individual atmospheric particles. Physical Chemistry Chemical Physics, 2016, 18, 29721-29731.	2.8	55
24	Visualizing the iron atom exchange front in the Fe(II)-catalyzed recrystallization of goethite by atom probe tomography. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2866-2874.	7.1	52
25	Fayalite dissolution and siderite formation in water-saturated supercritical CO2. Chemical Geology, 2012, 332-333, 124-135.	3.3	51
26	Geochemical and mineralogical investigation of uranium in multi-element contaminated, organic-rich subsurface sediment. Applied Geochemistry, 2014, 42, 77-85.	3.0	40
27	Tc(VII) and Cr(VI) Interaction with Naturally Reduced Ferruginous Smectite from a Redox Transition Zone. Environmental Science & Environmental Science	10.0	38
28	Formation of submicron magnesite during reaction of natural forsterite in H2O-saturated supercritical CO2. Geochimica Et Cosmochimica Acta, 2014, 134, 197-209.	3.9	36
29	Residual Waste from Hanford Tanks 241-C-203 and 241-C-204. 1. Solids Characterization. Environmental Science & Amp: Technology 2006. 40, 3749-3754. Kinetics and mechanisms of Cadmium carbonate heteroepitaxial growth at the calcite < mml:math	10.0	28
30	xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"> <mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mn>10</mml:mn><mml:mspace width="0.12em"></mml:mspace><mml:mover) etqq0<="" td="" tj=""><td>0 Оз:.gВТ /(</td><td>Overkock 10 T</td></mml:mover)></mml:mrow>	0 Оз :.g ВТ /(Overkock 10 T
31	Tip-Enhanced Raman Nanographs: Mapping Topography and Local Electric Fields. Nano Letters, 2015, 15, 2385-2390.	9.1	26
32	Resolving Iron(II) Sorption and Oxidative Growth on Hematite (001) Using Atom Probe Tomography. Journal of Physical Chemistry C, 2018, 122, 3903-3914.	3.1	26
33	Dynamics of Magnesite Formation at Low Temperature and High pCO ₂ in Aqueous Solution. Environmental Science & Eamp; Technology, 2015, 49, 10736-10744.	10.0	25
34	Inorganic tin aluminophosphate nanocomposite for reductive separation of pertechnetate. Environmental Science: Nano, 2016, 3, 1003-1013.	4.3	24
35	RedOx-controlled sorption of iodine anions by hydrotalcite composites. RSC Advances, 2016, 6, 76042-76055.	3.6	23
36	Carbon dioxide-assisted fabrication of highly uniform submicron-sized colloidal carbon spheres via hydrothermal carbonization using soft drink. Colloid and Polymer Science, 2012, 290, 1567-1573.	2.1	17

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38	Perfect Strain Relaxation in Metamorphic Epitaxial Aluminum on Silicon through Primary and Secondary Interface Misfit Dislocation Arrays. ACS Nano, 2018, 12, 6843-6850.	14.6	17
39	Enhancing magnesite formation at low temperature and high CO2 pressure: The impact of seed crystals and minor components. Chemical Geology, 2015, 395, 119-125.	3.3	16
40	Characterization of Nanoporous WO3 Films Grown via Ballistic Deposition. Journal of Physical Chemistry C, 2012, 116, 10649-10655.	3.1	15
41	Adsorption Kinetics in Nanoscale Porous Coordination Polymers. ACS Applied Materials & Samp; Interfaces, 2015, 7, 21712-21716.	8.0	14
42	Preâ€Viking Swedish hillfort glass: A prospective longâ€term alteration analogue for vitrified nuclear waste. International Journal of Applied Glass Science, 2018, 9, 540-554.	2.0	13
43	In situ friction and wear behavior of rubber materials incorporating various fillers and/or a plasticizer in high-pressure hydrogen. Tribology International, 2021, 153, 106627.	5.9	13
44	Pb nanowire formation on Al/lead zirconate titanate surfaces in high-pressure hydrogen. Journal of Applied Physics, 2012, 112, .	2.5	10
45	Tunable Porosity in Fused Filament 3D-Printed Blends of Intrinsically Porous Polymer and Thermoplastic Aliphatic Polyesters Polycaprolactone and Polylactic Acid. ACS Applied Polymer Materials, 2019, 1, 482-492.	4.4	10
46	High-Resolution Raman Nano-Imaging with an Imperfect Probe. Journal of Physical Chemistry C, 2022, 126, 4089-4094.	3.1	6
47	Effect of extent of natural subsurface bioreduction on Fe-mineralogy of subsurface sediments. Journal of Physics: Conference Series, 2010, 217, 012047.	0.4	5
48	Niche Partitioning of Microbial Communities at an Ancient Vitrified Hillfort: Implications for Vitrified Radioactive Waste Disposal. Geomicrobiology Journal, 2021, 38, 36-56.	2.0	5
49	Characterization of Solids in Residual Wastes from Underground Storage Tanks at the Hanford Site, Washington, U.S.A Materials Research Society Symposia Proceedings, 2006, 985, 1.	0.1	2
50	In Situ Characterization of Boehmite Particles in Water Using Liquid SEM. Journal of Visualized Experiments, 2017, , .	0.3	2
51	Identification of Fragile Microscopic Structures during Mineral Transformations in Wet Supercritical CO2. Microscopy and Microanalysis, 2013, 19, 268-275.	0.4	1
52	Visualizing the Distribution of Water in Nominally Anhydrous Minerals at the Atomic Scale: Insights From Atom Probe Tomography on Fayalite. Geophysical Research Letters, 2022, 49, .	4.0	0