

Glenn Pastel

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

5,739
citations

201575

27
h-index

414303

32
g-index

35
all docs

35
docs citations

35
times ranked

7364
citing authors

#	ARTICLE	IF	CITATIONS
1	Reducing Interfacial Resistance between Garnet-Based Structured Solid-State Electrolyte and Li-Metal Anode by a Germanium Layer. <i>Advanced Materials</i> , 2017, 29, 1606042.	11.1	512
2	Three-dimensional bilayer garnet solid electrolyte based high energy density lithium metal-sulfur batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1568-1575.	15.6	499
3	Muscle-Inspired Highly Anisotropic, Strong, Ion-Conductive Hydrogels. <i>Advanced Materials</i> , 2018, 30, e1801934.	11.1	408
4	Scalable and Highly Efficient Mesoporous Wood-Based Solar Steam Generation Device: Localized Heat, Rapid Water Transport. <i>Advanced Functional Materials</i> , 2018, 28, 1707134.	7.8	366
5	A general method to synthesize and sinter bulk ceramics in seconds. <i>Science</i> , 2020, 368, 521-526.	6.0	357
6	Anisotropic, lightweight, strong, and super thermally insulating nanowood with naturally aligned nanocellulose. <i>Science Advances</i> , 2018, 4, eaar3724.	4.7	336
7	3D-Printed All-Fiber Li-Ion Battery toward Wearable Energy Storage. <i>Advanced Functional Materials</i> , 2017, 27, 1703140.	7.8	270
8	Wood Composite as an Energy Efficient Building Material: Guided Sunlight Transmittance and Effective Thermal Insulation. <i>Advanced Energy Materials</i> , 2016, 6, 1601122.	10.2	228
9	Highly Conductive, Lightweight, Low-Tortuosity Carbon Frameworks as Ultrathick 3D Current Collectors. <i>Advanced Energy Materials</i> , 2017, 7, 1700595.	10.2	210
10	Interface Engineering for Garnet-Based Solid-State Lithium-Metal Batteries: Materials, Structures, and Characterization. <i>Advanced Materials</i> , 2018, 30, e1802068.	11.1	204
11	3D Wettable Framework for Dendrite-Free Alkali Metal Anodes. <i>Advanced Energy Materials</i> , 2018, 8, 1800635.	10.2	196
12	An Electron/Ion Dual-Conductive Alloy Framework for High-Rate and High-Capacity Solid-State Lithium-Metal Batteries. <i>Advanced Materials</i> , 2019, 31, e1804815.	11.1	188
13	Universal Soldering of Lithium and Sodium Alloys on Various Substrates for Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701963.	10.2	186
14	Conductive Cellulose Nanofiber Enabled Thick Electrode for Compact and Flexible Energy Storage Devices. <i>Advanced Energy Materials</i> , 2018, 8, 1802398.	10.2	163
15	Hierarchically Porous, Ultrathick, "Breathable" Wood-Derived Cathode for Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1701203.	10.2	161
16	<i>In Situ</i> Neutron Depth Profiling of Lithium Metal-Garnet Interfaces for Solid State Batteries. <i>Journal of the American Chemical Society</i> , 2017, 139, 14257-14264.	6.6	154
17	Denary oxide nanoparticles as highly stable catalysts for methane combustion. <i>Nature Catalysis</i> , 2021, 4, 62-70.	16.1	153
18	Enabling High-Areal-Capacity Lithium-Sulfur Batteries: Designing Anisotropic and Low-Tortuosity Porous Architectures. <i>ACS Nano</i> , 2017, 11, 4801-4807.	7.3	151

#	ARTICLE	IF	CITATIONS
19	FeS ₂ Nanoparticles Embedded in Reduced Graphene Oxide toward Robust, High-Performance Electrocatalysts. <i>Advanced Energy Materials</i> , 2017, 7, 1700482.	10.2	144
20	Nature-Inspired Tri-Pathway Design Enabling High-Performance Flexible Li-O ₂ Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1802964.	10.2	121
21	Bioinspired Solar-Heated Carbon Absorbent for Efficient Cleanup of Highly Viscous Crude Oil. <i>Advanced Functional Materials</i> , 2019, 29, 1900162.	7.8	116
22	Nanocellulose-Enabled, All-Nanofiber, High-Performance Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5919-5927.	4.0	91
23	Rapid Thermal Annealing of Cathode-Garnet Interface toward High-Temperature Solid State Batteries. <i>Nano Letters</i> , 2017, 17, 4917-4923.	4.5	89
24	Millisecond synthesis of CoS nanoparticles for highly efficient overall water splitting. <i>Nano Research</i> , 2019, 12, 2259-2267.	5.8	85
25	Flexible Solid-State Electrolyte with Aligned Nanostructures Derived from Wood. , 2019, 1, 354-361.		72
26	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
27	Flexible, Bio-Compatible Nanofluidic Ion Conductor. <i>Chemistry of Materials</i> , 2018, 30, 7707-7713.	3.2	54
28	Highly Efficient Water Treatment via a Wood-Based and Reusable Filter. , 2020, 2, 430-437.		50
29	A solid state energy storage device with supercapacitor-battery hybrid design. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15266-15272.	5.2	31
30	Rapid, High-Temperature, In Situ Microwave Synthesis of Bulk Nanocatalysts. <i>Small</i> , 2019, 15, e1904881.	5.2	28
31	In Situ, Fast, High-Temperature Synthesis of Nickel Nanoparticles in Reduced Graphene Oxide Matrix. <i>Advanced Energy Materials</i> , 2017, 7, 1601783.	10.2	27
32	Inverted battery design as ion generator for interfacing with biosystems. <i>Nature Communications</i> , 2017, 8, 15609.	5.8	21
33	Catalyst-Free <i>In Situ</i> Carbon Nanotube Growth in Confined Space <i>via</i> High Temperature Gradient. <i>Research</i> , 2018, 2018, 1793784.	2.8	7
34	A Sobering Examination of the Feasibility of Aqueous Aluminum Batteries. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 2436-2436.	0.0	0