

Yang Luo

List of Publications by Year in descending order

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42
papers

1,480
citations

236612

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h-index

329751

37
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43
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docs citations

43
times ranked

1088
citing authors

#	ARTICLE	IF	CITATIONS
1	NiFe-Layered Double Hydroxide Synchronously Activated by Heterojunctions and Vacancies for the Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2020, 12, 42850-42858.	4.0	105
2	Development and application of fuel cells in the automobile industry. Journal of Energy Storage, 2021, 42, 103124.	3.9	91
3	Utilization of coal fly ash in China: a mini-review on challenges and future directions. Environmental Science and Pollution Research, 2021, 28, 18727-18740.	2.7	76
4	Ceramic tiles derived from coal fly ash: Preparation and mechanical characterization. Ceramics International, 2017, 43, 11953-11966.	2.3	65
5	Liquid single-electrode triboelectric nanogenerator based on graphene oxide dispersion for wearable electronics. Nano Energy, 2019, 64, 103948.	8.2	64
6	Preparation of sintered foamed ceramics derived entirely from coal fly ash. Construction and Building Materials, 2018, 163, 529-538.	3.2	56
7	Biomechanical Energy Harvesters Based on Ionic Conductive Organohydrogels via the Hofmeister Effect and Electrostatic Interaction. ACS Nano, 2021, 15, 13427-13435.	7.3	56
8	An eco-friendly and cleaner process for preparing architectural ceramics from coal fly ash: Pre-activation of coal fly ash by a mechanochemical method. Journal of Cleaner Production, 2019, 214, 419-428.	4.6	48
9	Sustainable and shape-adaptable liquid single-electrode triboelectric nanogenerator for biomechanical energy harvesting. Nano Energy, 2020, 75, 105027.	8.2	48
10	Hydrogels as Soft Ionic Conductors in Flexible and Wearable Triboelectric Nanogenerators. Advanced Science, 2022, 9, e2106008.	5.6	48
11	Effect of particle size and alkali activation on coal fly ash and their role in sintered ceramic tiles. Journal of the European Ceramic Society, 2017, 37, 1847-1856.	2.8	47
12	Atomic-Scale Intercalation of Graphene Layers into MoSe ₂ Nanoflower Sheets as a Highly Efficient Catalyst for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2020, 12, 2460-2468.	4.0	47
13	Preparation of high entropy alloys and application to catalytical water electrolysis. APL Materials, 2022, 10, .	2.2	45
14	Optimization and cutting-edge design of fuel-cell hybrid electric vehicles. International Journal of Energy Research, 2021, 45, 18392-18423.	2.2	44
15	Preparation and characterization of whisker-reinforced ceramics from coal fly ash. Ceramics International, 2017, 43, 1-11.	2.3	43
16	Hofmeister Effect and Electrostatic Interaction Enhanced Ionic Conductive Organohydrogels for Electronic Applications. Advanced Functional Materials, 2022, 32, .	7.8	41
17	Mullite-based ceramic tiles produced solely from high-alumina fly ash: Preparation and sintering mechanism. Journal of Alloys and Compounds, 2018, 732, 828-837.	2.8	40
18	Effects of Ion Energy and Density on the Plasma Etching-Induced Surface Area, Edge Electrical Field, and Multivacancies in MoSe ₂ Nanosheets for Enhancement of the Hydrogen Evolution Reaction. Small, 2020, 16, e2001470.	5.2	38

#	ARTICLE	IF	CITATIONS
19	A novel process to enrich alumina and prepare silica nanoparticles from high-alumina fly ash. <i>Fuel Processing Technology</i> , 2018, 173, 40-47.	3.7	37
20	A hybrid Co NPs@CNT nanocomposite as highly efficient electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , 2020, 507, 145155.	3.1	34
21	Novel two-step process for synthesising SiC whiskers from coal fly ash and water glass. <i>Ceramics International</i> , 2018, 44, 10585-10595.	2.3	33
22	Mullite-bonded SiC-whisker-reinforced SiC matrix composites: Preparation, characterization, and toughening mechanisms. <i>Journal of the European Ceramic Society</i> , 2018, 38, 5282-5293.	2.8	32
23	Hybrid photovoltaic-triboelectric nanogenerators for simultaneously harvesting solar and mechanical energies. <i>Nano Energy</i> , 2021, 89, 106376.	8.2	31
24	Vertical kinetically oriented $\text{MoS}_2/\text{Mo}_2\text{N}$ heterostructures on carbon cloth: a highly efficient hydrogen evolution electrocatalyst. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2201-2207.	2.5	28
25	Recent progress and perspective of cobalt-based catalysts for water splitting: design and nanoarchitectonics. <i>Materials Today Energy</i> , 2022, 23, 100911.	2.5	28
26	Nanogap and Environmentally Stable Triboelectric Nanogenerators Based on Surface Self-Modified Sustainable Films. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55444-55452.	4.0	25
27	Combined treatment of red mud and coal fly ash by a hydro-chemical process. <i>Hydrometallurgy</i> , 2018, 175, 224-231.	1.8	23
28	Role of Cu and Y in sintering, phase transition, and electrical properties of BCZT lead-free piezoceramics. <i>Ceramics International</i> , 2018, 44, 15001-15009.	2.3	23
29	Plasma modified and tailored defective electrocatalysts for water electrolysis and hydrogen fuel cells. <i>EcoMat</i> , 2022, 4, .	6.8	22
30	Kinetics of decomposition of mullite and corundum in coal fly ash under highly alkaline condition. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 868-875.	1.7	21
31	Graphite felt incorporated with MoS_2/rGO for electrochemical detoxification of high-arsenic fly ash. <i>Chemical Engineering Journal</i> , 2020, 382, 122763.	6.6	20
32	Corrosion resistance of inorganic zinc-rich coating reinforced by Ni-coated coal fly ash. <i>Journal of Alloys and Compounds</i> , 2019, 786, 791-797.	2.8	19
33	Vertically-aligned lead-free BCTZY nanofibers with enhanced electrical properties for flexible piezoelectric nanogenerators. <i>Applied Surface Science</i> , 2019, 469, 283-291.	3.1	17
34	A 100% high-aluminum fly ash-based high-density mullite ceramic with a triple microstructure: Preparation and mechanical characterization. <i>Construction and Building Materials</i> , 2020, 239, 117761.	3.2	15
35	Plasma functionalized MoSe_2 for efficient nonenzymatic sensing of hydrogen peroxide in ultra-wide pH range. <i>SmartMat</i> , 2022, 3, 491-502.	6.4	14
36	Substitution of quartz and clay with fly ash in the production of architectural ceramics: A mechanistic study. <i>Ceramics International</i> , 2021, 47, 12514-12525.	2.3	13

#	ARTICLE	IF	CITATIONS
37	Ti ₃ C ₂ T _x MXenes-based flexible materials for electrochemical energy storage and solar energy conversion. <i>Nanophotonics</i> , 2022, 11, 3215-3245.	2.9	13
38	Commercialization of Electric Vehicles in Hong Kong. <i>Energies</i> , 2022, 15, 942.	1.6	11
39	Al ₂ O ₃ coating for densification of SiC ceramics and sintering kinetics. <i>Surface and Coatings Technology</i> , 2019, 374, 603-609.	2.2	10
40	Comment on "Effects of particle size and coating on decomposition of alumina-extracted residue from high-alumina fly ash": Proposition of the shrinking cylinder model. <i>Journal of Hazardous Materials</i> , 2021, 401, 123818.	6.5	4
41	Surface Seeding of Wheat: A Sustainable Way towards Climate Resilience Agriculture. <i>Sustainability</i> , 2022, 14, 7460.	1.6	3
42	Distinction between lignite fly ash and high-alumina fly ash: A thorough comment on <i>Sci. Total Environ.</i> 708, 135095. <i>Science of the Total Environment</i> , 2021, 757, 142990.	3.9	1