Yang Luo

List of Publications by Year in descending order

42 papers	1,480 citations	236612 25 h-index	329751 37 g-index
43 all docs	43 docs citations	43 times ranked	1088 citing authors

#	Article	IF	Citations
1	Recent progress and perspective of cobalt-based catalysts for water splitting: design and nanoarchitectonics. Materials Today Energy, 2022, 23, 100911.	2.5	28
2	Plasma functionalized MoSe₂ for efficient nonenzymatic sensing of hydrogen peroxide in ultraâ€wide pH range. SmartMat, 2022, 3, 491-502.	6.4	14
3	Commercialization of Electric Vehicles in Hong Kong. Energies, 2022, 15, 942.	1.6	11
4	Hydrogels as Soft Ionic Conductors in Flexible and Wearable Triboelectric Nanogenerators. Advanced Science, 2022, 9, e2106008.	5.6	48
5	Plasma modified and tailored defective electrocatalysts for water electrolysis and hydrogen fuel cells. EcoMat, 2022, 4, .	6.8	22
6	Hofmeister Effect and Electrostatic Interaction Enhanced Ionic Conductive Organohydrogels for Electronic Applications. Advanced Functional Materials, 2022, 32, .	7.8	41
7	Surface Seeding of Wheat: A Sustainable Way towards Climate Resilience Agriculture. Sustainability, 2022, 14, 7460.	1.6	3
8	Ti₃C₂T_xMXenes-based flexible materials for electrochemical energy storage and solar energy conversion. Nanophotonics, 2022, 11, 3215-3245.	2.9	13
9	Preparation of high entropy alloys and application to catalytical water electrolysis. APL Materials, 2022, 10, .	2.2	45
10	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
11	Distinction between lignite fly ash and high-alumina fly ash: A thorough comment on Sci. Total Environ. 708, 135095. Science of the Total Environment, 2021, 757, 142990.	3.9	1
12	Comment on â€œEffects of particle size and coating on decomposition of alumina-extracted residue from high-alumina fly ashâ€: Proposition of the shrinking cylinder model. Journal of Hazardous Materials, 2021, 401, 123818.	6.5	4
13	Substitution of quartz and clay with fly ash in the production of architectural ceramics: A mechanistic study. Ceramics International, 2021, 47, 12514-12525.	2.3	13
14	Optimization and cuttingâ€edge design of fuelâ€cell hybrid electric vehicles. International Journal of Energy Research, 2021, 45, 18392-18423.	2.2	44
15	Biomechanical Energy Harvesters Based on Ionic Conductive Organohydrogels via the Hofmeister Effect and Electrostatic Interaction. ACS Nano, 2021, 15, 13427-13435.	7.3	56
16	Development and application of fuel cells in the automobile industry. Journal of Energy Storage, 2021, 42, 103124.	3.9	91
17	Hybrid photovoltaic-triboelectric nanogenerators for simultaneously harvesting solar and mechanical energies. Nano Energy, 2021, 89, 106376.	8.2	31
18	Graphite felt incorporated with MoS2/rGO for electrochemical detoxification of high-arsenic fly ash. Chemical Engineering Journal, 2020, 382, 122763.	6.6	20

#	Article	IF	Citations
19	A hybrid Co NPs@CNT nanocomposite as highly efficient electrocatalyst for oxygen evolution reaction. Applied Surface Science, 2020, 507, 145155.	3.1	34
20	Atomic-Scale Intercalation of Graphene Layers into MoSe₂ Nanoflower Sheets as a Highly Efficient Catalyst for Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2020, 12, 2460-2468.	4.0	47
21	A 100% high-aluminum fly ash-based high-density mullite ceramic with a triple microstructure: Preparation and mechanical characterization. Construction and Building Materials, 2020, 239, 117761.	3.2	15
22	Nanogap and Environmentally Stable Triboelectric Nanogenerators Based on Surface Self-Modified Sustainable Films. ACS Applied Materials & Interfaces, 2020, 12, 55444-55452.	4.0	25
23	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
24	Effects of Ion Energy and Density on the Plasma Etchingâ€Induced Surface Area, Edge Electrical Field, and Multivacancies in MoSe₂ Nanosheets for Enhancement of the Hydrogen Evolution Reaction. Small, 2020, 16, e2001470.	5.2	38
25	Sustainable and shape-adaptable liquid single-electrode triboelectric nanogenerator for biomechanical energy harvesting. Nano Energy, 2020, 75, 105027.	8.2	48
26	Vertical kinetically oriented MoS₂â€“Mo₂N heterostructures on carbon cloth: a highly efficient hydrogen evolution electrocatalyst. Sustainable Energy and Fuels, 2020, 4, 2201-2207.	2.5	28
27	Liquid single-electrode triboelectric nanogenerator based on graphene oxide dispersion for wearable electronics. Nano Energy, 2019, 64, 103948.	8.2	64
28	Al2O3 coating for densification of SiC ceramics and sintering kinetics. Surface and Coatings Technology, 2019, 374, 603-609.	2.2	10
29	Kinetics of decomposition of mullite and corundum in coal fly ash under highly alkaline condition. Transactions of Nonferrous Metals Society of China, 2019, 29, 868-875.	1.7	21
30	Corrosion resistance of inorganic zinc-rich coating reinforced by Ni-coated coal fly ash. Journal of Alloys and Compounds, 2019, 786, 791-797.	2.8	19
31	Vertically-aligned lead-free BCTZY nanofibers with enhanced electrical properties for flexible piezoelectric nanogenerators. Applied Surface Science, 2019, 469, 283-291.	3.1	17
32	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
33	A novel process to enrich alumina and prepare silica nanoparticles from high-alumina fly ash. Fuel Processing Technology, 2018, 173, 40-47.	3.7	37
34	Combined treatment of red mud and coal fly ash by a hydro-chemical process. Hydrometallurgy, 2018, 175, 224-231.	1.8	23
35	Preparation of sintered foamed ceramics derived entirely from coal fly ash. Construction and Building Materials, 2018, 163, 529-538.	3.2	56
36	Novel two-step process for synthesisingÂÎ²-SiC whiskers from coal fly ash and water glass. Ceramics International, 2018, 44, 10585-10595.	2.3	33

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37	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
38	Role of Cu and Y in sintering, phase transition, and electrical properties of BCZT lead-free piezoceramics. Ceramics International, 2018, 44, 15001-15009.	2.3	23
39	Mullite-bonded SiC-whisker-reinforced SiC matrix composites: Preparation, characterization, and toughening mechanisms. Journal of the European Ceramic Society, 2018, 38, 5282-5293.	2.8	32
40	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
41	Ceramic tiles derived from coal fly ash: Preparation and mechanical characterization. Ceramics International, 2017, 43, 11953-11966.	2.3	65
42	Preparation and characterization of whisker-reinforced ceramics from coal fly ash. Ceramics International, 2017, 43, 1-11.	2.3	43