

Jia Zhuang

List of Publications by Year in descending order

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papers

812
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958
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#	ARTICLE	IF	CITATIONS
1	Enhanced Performance for Planar Perovskite Solar Cells with Samarium-Doped TiO ₂ Compact Electron Transport Layers. <i>Journal of Physical Chemistry C</i> , 2017, 121, 20150-20157.	3.1	64
2	Effects of microstructure and pore water on electrical conductivity of cement slurry during early hydration. <i>Composites Part B: Engineering</i> , 2019, 177, 107435.	12.0	40
3	Negligible hysteresis planar perovskite solar cells using Ga-doped SnO ₂ nanocrystal as electron transport layers. <i>Organic Electronics</i> , 2019, 71, 98-105.	2.6	38
4	Analysis of interfacial nanostructure and interaction mechanisms between cellulose fibres and calcium silicate hydrates using experimental and molecular dynamics simulation data. <i>Applied Surface Science</i> , 2020, 506, 144914.	6.1	33
5	Preparation and property of 2-acrylamide-2-methylpropanesulfonic acid/acrylamide/sodium styrene sulfonate as fluid loss agent for oil well cement. <i>Polymer Engineering and Science</i> , 2012, 52, 431-437.	3.1	31
6	Regulated perovskite crystallinity via green mixed antisolvent for efficient perovskite solar cells. <i>Organic Electronics</i> , 2019, 69, 69-76.	2.6	31
7	Evolution of pore structure of oil well cement slurry in suspension "solid transition stage. <i>Construction and Building Materials</i> , 2019, 214, 382-398.	7.2	28
8	A novel tri-layered photoanode of hierarchical ZnO microspheres on 1D ZnO nanowire arrays for dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 16678-16683.	3.6	25
9	Interface Modification for Enhanced Efficiency and Stability Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12948-12955.	3.1	25
10	Strong Electron Acceptor of a Fluorine-Containing Group Leads to High Performance of Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 41149-41158.	8.0	24
11	Research on the Interface Structure during Unidirectional Corrosion for Oil-Well Cement in H ₂ S Based on Computed Tomography Technology. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 10889-10895.	3.7	19
12	The coupled reaction and crystal growth mechanism of tricalcium silicate (C3S): An experimental study for carbon dioxide geo-sequestration wells. <i>Construction and Building Materials</i> , 2018, 187, 1286-1294.	7.2	19
13	Hydrothermal treatment of a TiO ₂ film by hydrochloric acid for efficient dye-sensitized solar cells. <i>New Journal of Chemistry</i> , 2016, 40, 3233-3237.	2.8	18
14	Relationship Between the Microstructure/Pore Structure of Oil-Well Cement and Hydrostatic Pressure. <i>Transport in Porous Media</i> , 2018, 124, 463-478.	2.6	18
15	Formation and strengthening mechanisms of xonotlite in C3S-silica and C2S-silica powder systems under high temperature and pressure. <i>Cement and Concrete Research</i> , 2022, 157, 106812.	11.0	18
16	Synthesis and performance of itaconic acid/acrylamide/sodium styrene sulfonate as a self-adapting retarder for oil well cement. <i>RSC Advances</i> , 2015, 5, 55428-55437.	3.6	17
17	Interfacial modification using ultrasonic atomized graphene quantum dots for efficient perovskite solar cells. <i>Organic Electronics</i> , 2019, 75, 105415.	2.6	16
18	Effect of the hydration rate and microstructure of Portland cement slurry on hydrostatic pressure transfer. <i>Powder Technology</i> , 2019, 352, 251-261.	4.2	16

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19	Enhanced performance of perovskite solar cells using DNA-doped mesoporous-TiO ₂ as electron transporting layer. <i>Solar Energy</i> , 2020, 206, 855-863.	6.1	16
20	Effect of different welding parameters on residual stress and deformation of 20/0Cr18Ni9 dissimilar metal arc-welding joint. <i>Journal of Adhesion Science and Technology</i> , 2020, 34, 1628-1652.	2.6	16
21	Multifunctional molecules of surfactant to support enhanced efficiency and stability for perovskite solar cells. <i>Journal of Materials Science</i> , 2020, 55, 14761-14772.	3.7	15
22	MAA-modified and luminescence properties of ZnO quantum dots. <i>Science in China Series B: Chemistry</i> , 2009, 52, 2125-2133.	0.8	14
23	Enhanced electron extraction using ZnO/ZnO-SnO ₂ solid double-layer photoanode thin films for efficient dye sensitized solar cells. <i>Thin Solid Films</i> , 2019, 684, 1-8.	1.8	14
24	Triphenylamine hydrophobic surface prepared by low-temperature solution deposition for stable and high-efficiency SnO ₂ planar perovskite solar cells. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154710.	5.5	14
25	Effectiveness and microstructure change of alkali-activated materials during accelerated carbonation curing. <i>Construction and Building Materials</i> , 2021, 274, 122063.	7.2	14
26	Synergistic Defect Passivation for Highly Efficient and Stable Perovskite Solar Cells Using Sodium Dodecyl Benzene Sulfonate. <i>ACS Applied Energy Materials</i> , 2021, 4, 4910-4918.	5.1	14
27	Preparation and application of core-shell Fe ₃ O ₄ /polythiophene nanoparticles. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6919-6930.	1.9	13
28	Improving the performance of lead acetate-based perovskite solar cells via solvent vapor annealing. <i>CrystEngComm</i> , 2019, 21, 4753-4762.	2.6	12
29	Self-healing mechanism of Zn-enhanced cement stone: An application for sour natural gas field. <i>Construction and Building Materials</i> , 2019, 227, 116651.	7.2	12
30	An intelligent natural fibrous membrane anchored with ZnO for switchable oil/water separation and water purification. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 634, 128041.	4.7	12
31	Preparation of nano C-ZnO/SnO ₂ composite photoanode via a two-step solid state reaction with high efficiency for DSSCs. <i>RSC Advances</i> , 2015, 5, 91997-92003.	3.6	11
32	TiO ₂ photoanode surface modification via combined action of samarium and titanium salt in dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017, 165, 45-51.	6.2	11
33	F4-TCNQ doped strategy of nickel oxide as high-efficient hole transporting materials for invert perovskite solar cell. <i>Materials Science in Semiconductor Processing</i> , 2021, 121, 105458.	4.0	11
34	Effects of Fe and Al ions during hydrogen sulphide (H ₂ S)-induced corrosion of tetracalcium aluminoferrite (C4AF) and tricalcium aluminate (C3A). <i>Journal of Hazardous Materials</i> , 2021, 403, 123928.	12.4	11
35	A Versatile Organic Salt Modified SnO ₂ Electron Transport Layer for High-Performance Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100582.	3.7	11
36	The change and influence mechanism of the mechanical properties of tricalcium silicate hardening at high temperature. <i>Construction and Building Materials</i> , 2021, 308, 125065.	7.2	11

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37	Mixed-phase Mesoporous TiO ₂ Film for High Efficiency Perovskite Solar Cells. <i>Chemical Research in Chinese Universities</i> , 2019, 35, 101-108.	2.6	10
38	One-step RF magnetron sputtering method for preparing Cu(In, Ga)Se ₂ solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 11755-11762.	2.2	9
39	Crystallization of tricalcium silicate blended with different silica powder dosages at high temperature. <i>Construction and Building Materials</i> , 2022, 316, 125884.	7.2	9
40	Low-temperature dynamic vacuum annealing of ZnO thin film for improved inverted polymer solar cells. <i>RSC Advances</i> , 2017, 7, 29357-29363.	3.6	8
41	Enhanced ferroelectric and dielectric properties of BiFeO ₃ /PbTiO ₃ thin films grown via a sol-gel multilayer deposition method. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 75, 353-359.	2.4	7
42	Synthesis of microcrystalline brownmillerite Ca ₂ (Al,Fe)2O ₅ and its influence of mechanical properties to the class G oil-well cement. <i>Journal of Adhesion Science and Technology</i> , 2018, 32, 125-138.	2.6	7
43	Effect of red mud addition on oil well cement at high temperatures. <i>Advances in Cement Research</i> , 2021, 33, 28-38.	1.6	7
44	Resource utilization from solid waste originated from oil-based shale drilling cutting during shale gas development. <i>Chemosphere</i> , 2022, 298, 134318.	8.2	7
45	Structural evolution in micro-calcite bearing Ca-montmorillonite reinforced oilwell cement during CO ₂ invasion. <i>Construction and Building Materials</i> , 2022, 315, 125744.	7.2	5
46	Influence of laser power on the microstructure and properties of Fe314 alloy cladding layer on EA4T steel. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2022, 66, 1551-1563.	2.5	5
47	Terpolymerization and performance of 2-acrylamide-2-methyl propane sulfonic acid / itaconic acid / vinylpyrrolidone. <i>Journal of Applied Polymer Science</i> , 2010, 117, 2951-2957.	2.6	4
48	Bilayer structured nanowire-array and nanotube-cluster TiO ₂ photoanode for efficient dye-sensitized solar cells. <i>Chemical Research in Chinese Universities</i> , 2015, 31, 412-417.	2.6	4
49	Synthesis and anti-corrosion performance of Adenine-L-Alanine ramification. <i>Journal of Adhesion Science and Technology</i> , 2016, 30, 851-865.	2.6	4
50	The influence of sulfomethyl phenol formaldehyde resin (SMP) on cementing slurry. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 1002-1013.	2.6	3
51	Multifunctional Additive of Potassium Cinnamate Improve Crystallization and Passivate Defect for Perovskite Solar Cell with Efficiency Exceeding 22%. <i>Energy Technology</i> , 0, , 2200125.	3.8	3
52	Preparation and Optical Properties of TiO ₂ Film with a Nest-Like Structure by Three Times of Circulating Hydrothermal Method. <i>Nano</i> , 2016, 11, 1650066.	1.0	2
53	Preparation of multistage sheet-cluster ZnO photoanode via a solid state reaction and its property in DSSCs. <i>Chemical Research in Chinese Universities</i> , 2016, 32, 437-442.	2.6	2
54	Efficient defect passivation for high performance perovskite solar cell by adding alizarin red S. <i>Journal of Materials Science</i> , 2021, 56, 19552-19563.	3.7	2

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55	Preparation and properties of optoelectronic conversion films of perovskite modified by octadecyl-trichloro silane. <i>Organic Electronics</i> , 2021, 88, 106028.	2.6	1
56	Strong connection between PVK and ETL induced by an anti-allergic agent interface for high-quality PSCs. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 6456.	2.2	1