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List of Articles by Year in descending order

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51

PR articles

1,038

PR citations

492988

17

PR h-index

480083

30

g-index

70

documents

1383

doc citations

455106

19

h-index

2493

citing authors

#	ARTICLE	IF	CITATIONS
1	Thermo-luminescent optical fibre sensor for Li-ion cell internal temperature monitoring. Journal of Power Sources, 2024, 593, 233981.	7.9	7
2	Towards smart and secure batteries: Linking pressure and temperature profiles with electrochemical behavior through hybrid optical fiber sensors. Chemical Engineering Journal, 2024, 500, 156806.	12.0	10
3	Revealing how internal sensors in a smart battery impact the local graphite lithiation mechanism. Nature Communications, 2024, 15, .	13.7	18
4	Stress factor identification and Risk Probabilistic Number (RPN) analysis of Li-ion batteries based on worldwide electric vehicle usage. Applied Energy, 2023, 343, 121250.	10.5	8
5	Evolution of Safety Behavior of High-Power and High-Energy Commercial Li-Ion Cells after Electric Vehicle Aging. Batteries, 2023, 9, 427.	4.4	11
6	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. Advanced Energy Materials, 2022, 12, .	22.5	173
7	Parametrization of a Doyle-Fuller-Newman (DFN) Model for a Commercial 37Ah Li-Ion Battery and Validation with Incremental Capacity Analysis. ECS Meeting Abstracts, 2022, MA2022-01, 191-191.	0.0	0
8	Chemical Degradation and Color Changes of Paint Protective Coatings Used in Solar Glass Mirrors. Coatings, 2021, 11, 476.	2.5	10
9	Environments, needs and opportunities for future space photovoltaic power generation: A review. Applied Energy, 2021, 290, 116757.	10.5	100
10	Optical lithium sensors. Coordination Chemistry Reviews, 2021, 435, 213801.	23.1	28
11	Identification of Degradation Mechanisms by Post-Mortem Analysis for High Power and High Energy Commercial Li-Ion Cells after Electric Vehicle Aging. Batteries, 2021, 7, 48.	4.4	38
12	Thermal Runaway Modelling of Li-Ion Cells at Various States of Ageing with a Semi-Empirical Model Based on a Kinetic Equation. Batteries, 2021, 7, 68.	4.4	11
13	Accelerated aging tests and characterizations of innovated anti-soiling coatings for solar receiver glasses. Materials Chemistry and Physics, 2020, 256, 123646.	4.4	9
14	Investigation of Reference Electrodes Usable As an Understanding Tool of Aging Mechanisms in Lithium-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 437-437.	0.0	0
15	3D Thermal Gradient of Li-Ion Prismatic Cell during High Current Discharge: A Numerical and Experimental Study. ECS Meeting Abstracts, 2020, MA2020-01, 131-131.	0.0	1
16	Accelerated aging test modeling applied to solar mirrors. Npj Materials Degradation, 2019, 3, .	6.6	22
17	Characterization of different Moroccan sands to explain their potential negative impacts on CSP solar mirrors. Solar Energy, 2019, 194, 959-968.	6.3	21
18	Round Robin Test for the comparison of spectral emittance measurement apparatuses. Solar Energy Materials and Solar Cells, 2019, 191, 476-485.	6.1	17

#	ARTICLE	IF	CITATIONS
19	Does micro-scaling of CPV modules improve efficiency? A cell-to-module performance analysis. Solar Energy, 2018, 173, 789-803.	6.3	32
20	Review of accelerated ageing test modelling and its application to solar mirrors. Solar Energy Materials and Solar Cells, 2018, 186, 29-41.	6.1	35
21	A Tool to Characterize the Electrical Influence of the Thermal and Mechanical Behaviors of Materials of Optics for CPV applications. MRS Advances, 2017, 2, 3123-3128.	0.9	0
22	Critical Constraints Responsible to Solar Glass Mirror Degradation. Energy Procedia, 2015, 69, 1519-1528.	2.1	24
23	Study of the Stability of a Selective Solar Absorber Coating under Air and High Temperature Conditions. Energy Procedia, 2015, 69, 1551-1557.	2.1	33
24	Hemispherical Reflectance Results of the SolarPACES Reflectance Round Robin. Energy Procedia, 2015, 69, 1904-1910.	2.1	13
25	Glass and Polymeric Mirrors Ageing under different Moroccan Weathers, an Application for CSP Power Plants. Energy Procedia, 2015, 69, 1508-1518.	2.1	22
26	Correlation between Solar Mirror Degradation and Colorimetric Measurement of Protective Back Layer. Energy Procedia, 2014, 49, 1700-1707.	2.1	27
27	Design Methodology and Experimental Platform for the Validation of PCM Storage Modules for DSG Solar Plants. Energy Procedia, 2014, 49, 945-955.	2.1	4
28	Efficient sensitization of Ln ³⁺ -doped NaYF ₄ nanocrystals with organic ligands. Journal of Nanoparticle Research, 2013, 15, .	2.4	10
29	Multicolour Optical Coding from a Series of Luminescent Lanthanide Complexes with a Unique Antenna. Chemistry - A European Journal, 2013, 19, 3477-3482.	3.4	76
30	Luminescent latex particles loaded with anionic lanthanide complexes: a versatile platform for multicolour optical coding. Journal of Materials Chemistry C, 2013, 1, 2061.	5.1	24
31	A Gadolinium Complex Confined in Silica Nanoparticles as a Highly Efficient T1/T2 MRI Contrast Agent. Chemistry - A European Journal, 2013, 19, 6980-6983.	3.4	48
32	Chalcopyrite thin-film solar cells by industry-compatible ink-based process. Solar Energy Materials and Solar Cells, 2013, 115, 86-92.	6.1	20
33	Radioactive Europium Chelate-Based Silica Nanoparticles as a Probe for Stability, Incorporation Efficiency and Trace Analysis. European Journal of Inorganic Chemistry, 2013, 2013, 1493-1498.	1.8	7
34	Z-contrast cryo-electron tomography probes shell porosity in multi-shell nanocomposites. Journal of Nanoparticle Research, 2012, 14, .	2.4	2
35	Silica encapsulation of luminescent silicon nanoparticles: stable and biocompatible nanohybrids. Journal of Nanoparticle Research, 2012, 14, .	2.4	5
36	A wet chemical preparation of transparent conducting thin films of Al-doped ZnO nanoparticles. Journal of Nanoparticle Research, 2011, 13, 6717-6724.	2.4	17

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37	Use of doped-YAG nanoparticles as down-converters for Photovoltaics. Materials Research Society Symposia Proceedings, 2011, 1303, .	0.1	0
38	Autoreduction of Metallic Species on the Surface of Silica Nanoparticles by Surface Functionalization. Materials Research Society Symposia Proceedings, 2010, 1207, .	0.1	1
39	Functionalization of Cloisite 30B with fluorescent dyes. Applied Clay Science, 2010, 50, 525-532.	5.5	15
40	Lanthanide-chelate silica nanospheres as robust multicolor Vis-NIR tags. Chemical Communications, 2010, 46, 2647.	3.4	23
41	Homogeneous dispersion of gadolinium oxide nanoparticles into a non-aqueous-based polymer by two surface treatments. Journal of Nanoparticle Research, 2010, 13, 2417-2428.	2.4	5
42	Labelling nanoparticles by nanotracers and oligonucleotides. Journal of Physics: Conference Series, 2009, 170, 012015.	0.3	0
43	Effect of water and UV passivation on the luminescence of suspensions of silicon quantum dots. Journal of Nanoparticle Research, 2009, 12, 39-46.	2.4	18
44	Surface characterizations of fluorescent-functionalized silica nanoparticles: from the macroscale to the nanoscale. Journal of Nanoparticle Research, 2009, 12, 2255-2265.	2.4	17
45	Nanohydrodynamics: The Intrinsic Flow Boundary Condition on Smooth Surfaces. Langmuir, 2008, 24, 1165-1172.	3.6	108
46	On the influence of surfactants in electrowetting systems. Journal of Micromechanics and Microengineering, 2007, 17, 2217-2223.	1.9	40
47	Computer aided design of an EWOD microdevice. Sensors and Actuators A: Physical, 2006, 127, 283-294.	4.5	93
48	Influence of liquid surface tension on stiction of SOI MEMS. Journal of Micromechanics and Microengineering, 2004, 14, 1083-1090.	1.9	70
49	A novel tank for DI water reduction in MEMS manufacturing. Journal of Micromechanics and Microengineering, 2003, 13, 442-446.	1.9	2
50	Long-Term Stability Evaluation of Optical Fiber Sensors Immersed in LiPF6 Electrolyte. Batteries and Supercaps, 0, 8, .	4.3	0
51	Operando Detection of Lithium Plating and Stripping in Fast-Charging Li-Ion Cells with a Reference Electrode. Batteries and Supercaps, 0, 8, .	4.3	2