

Nathalie Herlin Boime

List of Publications by Year in descending order

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35
papers

1,799
citations

411340

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h-index

406436

35
g-index

36
all docs

36
docs citations

36
times ranked

3563
citing authors

#	ARTICLE	IF	CITATIONS
1	(De)Lithiation and Strain Mechanism in Crystalline Ge Nanoparticles. ACS Nano, 2022, 16, 9819-9829.	7.3	8
2	Effect of the Secondary Rutile Phase in Single-Step Synthesized Carbon-Coated Anatase TiO ₂ Nanoparticles as Lithium-Ion Anode Material. Energy Technology, 2021, 9, 2001067.	1.8	7
3	Effect of Size and Shape on Electrochemical Performance of Nano-Silicon-Based Lithium Battery. Nanomaterials, 2021, 11, 307.	1.9	34
4	Electrodeposited ZnO nanoparticles on vertically aligned carbon nanotubes (VACNTs) as promising charge extracting electrodes for halide perovskite devices. Materials Advances, 2020, 1, 1232-1240.	2.6	2
5	One-Step Synthesis of TiO ₂ /Graphene Nanocomposites by Laser Pyrolysis with Well-Controlled Properties and Application in Perovskite Solar Cells. ACS Omega, 2019, 4, 11906-11913.	1.6	33
6	Artificial Solid Electrolyte Interphase Formation on Si Nanoparticles through Radiolysis: Importance of the Presence of an Additive. Journal of Physical Chemistry C, 2019, 123, 28550-28560.	1.5	4
7	Best Performing SiGe/Si Core-Shell Nanoparticles Synthesized in One Step for High Capacity Anodes. Batteries and Supercaps, 2019, 2, 970-978.	2.4	8
8	In Vitro Analysis of the Effects of ITER-Like Tungsten Nanoparticles: Cytotoxicity and Epigenotoxicity in BEAS-2B Cells. Nanomaterials, 2019, 9, 1233.	1.9	11
9	Electrochemical analysis of silicon nanoparticle lithiation – Effect of crystallinity and carbon coating quantity. Journal of Power Sources, 2019, 435, 226769.	4.0	18
10	Design of model tokamak particles for future toxicity studies: Morphology and physical characterization. Fusion Engineering and Design, 2019, 145, 60-65.	1.0	6
11	A polyisoindigo derivative as novel n-type conductive binder inside Si@C nanoparticle electrodes for Li-ion battery applications. Journal of Power Sources, 2019, 420, 9-14.	4.0	28
12	Carbon/Graphene-Modified Titania with Enhanced Photocatalytic Activity under UV and Vis Irradiation. Materials, 2019, 12, 4158.	1.3	17
13	On the Operational Aspects of Measuring Nanoparticle Sizes. Nanomaterials, 2019, 9, 18.	1.9	41
14	Toxicological impact of acute exposure to E171 food additive and TiO ₂ nanoparticles on a co-culture of Caco-2 and HT29-MTX intestinal cells. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2019, 845, 402980.	0.9	45
15	Laser synthesized TiO ₂ -based nanoparticles and their efficiency in the photocatalytic degradation of linear carboxylic acids. Science and Technology of Advanced Materials, 2017, 18, 805-815.	2.8	7
16	Continuous <i>in vitro</i> exposure of intestinal epithelial cells to E171 food additive causes oxidative stress, inducing oxidation of DNA bases but no endoplasmic reticulum stress. Nanotoxicology, 2017, 11, 1-11.	1.6	93
17	Influence of Nitrogen Doping on Device Operation for TiO ₂ -Based Solid-State Dye-Sensitized Solar Cells: Photo-Physics from Materials to Devices. Nanomaterials, 2016, 6, 35.	1.9	20
18	The benefits of graphene for hybrid perovskite solar cells. Synthetic Metals, 2016, 222, 3-16.	2.1	52

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19	Core-shell amorphous silicon-carbon nanoparticles for high performance anodes in lithium ion batteries. <i>Journal of Power Sources</i> , 2016, 328, 527-535.	4.0	62
20	One-Step Synthesis of Si@C Nanoparticles by Laser Pyrolysis: High-Capacity Anode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6637-6644.	4.0	98
21	Single-Step Preparation of TiO ₂ /MWCNT Nanohybrid Materials by Laser Pyrolysis and Application to Efficient Photovoltaic Energy Conversion. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 51-56.	4.0	27
22	Impact of anatase and rutile titanium dioxide nanoparticles on uptake carriers and efflux pumps in Caco-2 gut epithelial cells. <i>Nanoscale</i> , 2015, 7, 7352-7360.	2.8	64
23	Titanium dioxide nanoparticle impact and translocation through ex vivo, in vivo and in vitro gut epithelia. <i>Particle and Fibre Toxicology</i> , 2014, 11, 13.	2.8	225
24	Direct photocurrent generation from nitrogen doped TiO ₂ electrodes in solid-state dye-sensitized solar cells: Towards optically-active metal oxides for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2013, 117, 624-631.	3.0	42
25	Polymer-Grafted Silicon Nanoparticles Obtained Either via Peptide Bonding or Click Chemistry. <i>Macromolecular Chemistry and Physics</i> , 2012, 213, 2498-2503.	1.1	10
26	Accumulation, translocation and impact of TiO ₂ nanoparticles in wheat (<i>Triticum aestivum</i> spp.): Influence of diameter and crystal phase. <i>Science of the Total Environment</i> , 2012, 431, 197-208.	3.9	394
27	Silica encapsulation of luminescent silicon nanoparticles: stable and biocompatible nanohybrids. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	5
28	Synthesis and On-line Size Control of Silicon Quantum Dots. <i>KONA Powder and Particle Journal</i> , 2011, 29, 236-250.	0.9	10
29	TiO ₂ Nanocrystals Synthesized by Laser Pyrolysis for the Up-scaling of Efficient Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2011, 1, 908-916.	10.2	29
30	Effect of water and UV passivation on the luminescence of suspensions of silicon quantum dots. <i>Journal of Nanoparticle Research</i> , 2010, 12, 39-46.	0.8	18
31	In vitro evaluation of SiC nanoparticles impact on A549 pulmonary cells: Cyto-, genotoxicity and oxidative stress. <i>Toxicology Letters</i> , 2010, 198, 324-330.	0.4	112
32	N-Doped Titanium Monoxide Nanoparticles with TiO Rock-Salt Structure, Low Energy Band Gap, and Visible Light Activity. <i>Chemistry of Materials</i> , 2010, 22, 3704-3711.	3.2	73
33	Versatility of Laser Pyrolysis Applied to the Synthesis of TiO ₂ Nanoparticles – Application to UV Attenuation. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 883-889.	1.0	45
34	Blue TiO ₂ /SiO ₂ nanoparticles by laser pyrolysis. <i>Journal of Nanoparticle Research</i> , 2006, 8, 351-360.	0.8	18
35	Carbon nanoparticles from laser pyrolysis. <i>Carbon</i> , 2002, 40, 2775-2789.	5.4	133