

Matthew B Starr

List of Publications by Year in descending order

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13
papers

1,472
citations

687220

13
h-index

1058333

14
g-index

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all docs

14
docs citations

14
times ranked

1981
citing authors

#	ARTICLE	IF	CITATIONS
1	Computation of Electronic Energy Band Diagrams for Piezotronic Semiconductor and Electrochemical Systems. <i>Advanced Electronic Materials</i> , 2018, 4, 1700395.	2.6	15
2	Decoupling the charge collecting and screening effects in piezotronics-regulated photoelectrochemical systems by using graphene as the charge collector. <i>Nano Energy</i> , 2018, 48, 377-382.	8.2	14
3	Nanometre-thick single-crystalline nanosheets grown at the water-air interface. <i>Nature Communications</i> , 2016, 7, 10444.	5.8	133
4	Coupling of piezoelectric effect with electrochemical processes. <i>Nano Energy</i> , 2015, 14, 296-311.	8.2	153
5	Ferroelectric Polarization-Enhanced Photoelectrochemical Water Splitting in $\text{TiO}_2/\text{BaTiO}_3$ Core-Shell Nanowire Photoanodes. <i>Nano Letters</i> , 2015, 15, 7574-7580.	4.5	280
6	Piezotronic-Enhanced Photoelectrochemical Reactions in $\text{Ni}(\text{OH})_2$ -Decorated ZnO Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3410-3416.	2.1	67
7	Fundamental Analysis of Piezocatalysis Process on the Surfaces of Strained Piezoelectric Materials. <i>Scientific Reports</i> , 2013, 3, 2160.	1.6	169
8	Band Structure Engineering at Heterojunction Interfaces via the Piezotronic Effect. <i>Advanced Materials</i> , 2012, 24, 4683-4691.	11.1	111
9	Piezopotential-Driven Redox Reactions at the Surface of Piezoelectric Materials. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5962-5966.	7.2	251
10	Size-Dependent Crystalline to Amorphous Uphill Phase Transformation of Hydroxyapatite Nanoparticles. <i>Crystal Growth and Design</i> , 2011, 11, 45-52.	1.4	16
11	Growth of Titanium Dioxide Nanorods in 3D-Confined Spaces. <i>Nano Letters</i> , 2011, 11, 624-631.	4.5	79
12	Interface Engineering by Piezoelectric Potential in ZnO-Based Photoelectrochemical Anode. <i>Nano Letters</i> , 2011, 11, 5587-5593.	4.5	131
13	Thermodynamic Modeling of Hydroxyapatite Crystallization with Biomimetic Precursor Design Considerations. <i>Chemistry of Materials</i> , 2010, 22, 36-46.	3.2	21