

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

14
all docs

14
docs citations

14
times ranked

1981
citing authors

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