

# Arif Sheikh

## List of Publications by Year in descending order

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47  
papers

3,471  
citations

218592

26  
h-index

233338

45  
g-index

47  
all docs

47  
docs citations

47  
times ranked

6168  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasensitive organic-inorganic nanotube thin films of halogenated perovskites as room temperature ammonia sensors. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162388.	2.8	12
2	ZnFe <sub>2</sub> O <sub>4</sub> / ZnO 0D-1D heterojunction for efficient photoelectrochemical water splitting. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 284, 115854.	1.7	10
3	Rapid detoxification of polluted water using ultrastable TiO <sub>2</sub> encapsulated CsPbBr <sub>3</sub> QDs in collected sunlight. <i>Materials Research Bulletin</i> , 2021, 142, 111433.	2.7	11
4	In <sub>2</sub> O <sub>3</sub> nanocapsules for rapid photodegradation of crystal violet dye under sunlight. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 287-297.	5.0	47
5	Impact of Residual Lead Iodide on Photophysical Properties of Lead Triiodide Perovskite Solar Cells. <i>Energy Technology</i> , 2020, 8, 1900627.	1.8	10
6	Sunlight Assisted improved photocatalytic degradation of rhodamine B using Pd-loaded g-C <sub>3</sub> N <sub>4</sub> /WO <sub>3</sub> nanocomposite. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	39
7	Two-Step Antisolvent Precipitated MAPbI <sub>3</sub> Pellet-Based Robust Room-Temperature Ammonia Sensor. <i>Advanced Materials Technologies</i> , 2019, 4, 1900251.	3.0	23
8	New insights into active-area-dependent performance of hybrid perovskite solar cells. <i>Journal of Materials Science</i> , 2019, 54, 10825-10835.	1.7	7
9	Solar Cells: Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics (Adv. Mater. 35/2018). <i>Advanced Materials</i> , 2018, 30, 1870260.	11.1	3
10	Impact of collected sunlight on ZnFe <sub>2</sub> O <sub>4</sub> nanoparticles for photocatalytic application. <i>Journal of Colloid and Interface Science</i> , 2018, 527, 289-297.	5.0	96
11	Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2018, 30, e1801661.	11.1	79
12	Perovskite Photovoltaics: Hybrid Perovskite Thin-Film Photovoltaics: In Situ Diagnostics and Importance of the Precursor Solvate Phases (Adv. Mater. 2/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	3
13	Hybrid perovskite solar cells: <i>in situ</i> investigation of solution-processed PbI <sub>2</sub> reveals metastable precursors and a pathway to producing porous thin films. <i>Journal of Materials Research</i> , 2017, 32, 1899-1907.	1.2	26
14	Hybrid tandem quantum dot/organic photovoltaic cells with complementary near infrared absorption. <i>Applied Physics Letters</i> , 2017, 110, 223903.	1.5	23
15	TiO <sub>2</sub> /PbS/ZnS heterostructure for panchromatic quantum dot sensitized solar cells synthesized by wet chemical route. <i>Optical Materials</i> , 2017, 73, 781-792.	1.7	31
16	Effects of High Temperature and Thermal Cycling on the Performance of Perovskite Solar Cells: Acceleration of Charge Recombination and Deterioration of Charge Extraction. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 35018-35029.	4.0	62
17	Perovskite solar cells: In pursuit of efficiency and stability. <i>Materials and Design</i> , 2017, 136, 54-80.	3.3	83
18	Metal Oxides as Efficient Charge Transporters in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602803.	10.2	147

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19	Improved Morphology and Efficiency of n-i-p Planar Perovskite Solar Cells by Processing with Glycol Ether Additives. ACS Energy Letters, 2017, 2, 1960-1968.	8.8	47
20	Hybrid Perovskite Thin-Film Photovoltaics: In Situ Diagnostics and Importance of the Precursor Solvate Phases. Advanced Materials, 2017, 29, 1604113.	11.1	155
21	Schottky junctions on perovskite single crystals: light-modulated dielectric constant and self-biased photodetection. Journal of Materials Chemistry C, 2016, 4, 8304-8312.	2.7	134
22	Mesostructured Fullerene Electrodes for Highly Efficient n-i-p Perovskite Solar Cells. ACS Energy Letters, 2016, 1, 1049-1056.	8.8	37
23	Fast Crystallization and Improved Stability of Perovskite Solar Cells with Zn <sub>2</sub> SnO <sub>4</sub> Electron Transporting Layer: Interface Matters. ACS Applied Materials & Interfaces, 2015, 7, 28404-28411.	4.0	103
24	Atmospheric effects on the photovoltaic performance of hybrid perovskite solar cells. Solar Energy Materials and Solar Cells, 2015, 137, 6-14.	3.0	117
25	Facile Synthesis and High Performance of a New Carbazole-Based Hole-Transporting Material for Hybrid Perovskite Solar Cells. ACS Photonics, 2015, 2, 849-855.	3.2	99
26	Ambipolar solution-processed hybrid perovskite phototransistors. Nature Communications, 2015, 6, 8238.	5.8	519
27	CH <sub>3</sub> NH <sub>3</sub> PbCl <sub>3</sub> Single Crystals: Inverse Temperature Crystallization and Visible-Blind UV-Photodetector. Journal of Physical Chemistry Letters, 2015, 6, 3781-3786.	2.1	636
28	Perovskite Oxide SrTiO <sub>3</sub> as an Efficient Electron Transporter for Hybrid Perovskite Solar Cells. Journal of Physical Chemistry C, 2014, 118, 28494-28501.	1.5	251
29	Near-Field Plasmonic Functionalization of Light Harvesting Oxide-Oxide Heterojunctions for Efficient Solar Photoelectrochemical Water Splitting: The AuNP/ZnFe <sub>2</sub> O <sub>4</sub> /ZnO System. Small, 2013, 9, 2091-2096.	5.2	73
30	Magnetically controlled flexible valve for flow manipulation in polymer microfluidic devices. , 2012, , .		1
31	Magnetoelectric properties of particulate and bi-layer PMN-PT/CoFe <sub>2</sub> O <sub>4</sub> composites. Journal of Magnetism and Magnetic Materials, 2012, 324, 695-703.	1.0	25
32	Dielectric, ferroelectric, magnetic and magnetoelectric properties of PMN-PT based ME composites. Journal of Physics and Chemistry of Solids, 2011, 72, 1423-1429.	1.9	22
33	Study on growth of hollow nanoparticles of alumina. Journal of Materials Science, 2011, 46, 2212-2220.	1.7	11
34	Microstructure-property relationship in magnetoelectric bulk composites. Journal of Magnetism and Magnetic Materials, 2011, 323, 740-747.	1.0	21
35	Diffuse phase transition and magnetoelectric effect in (f) Co <sub>0.8</sub> Ni <sub>0.2</sub> Fe <sub>2</sub> O <sub>4</sub> +(1-f) PMN-PT particulate composites. Materials Chemistry and Physics, 2010, 119, 395-401.	2.0	21
36	Dielectric, electrical and magnetoelectric characterization of (x)Ni <sub>0.8</sub> Zn <sub>0.2</sub> Fe <sub>2</sub> O <sub>4</sub> +(1-x)Pb <sub>0.93</sub> La <sub>0.07</sub> (Zr <sub>0.60</sub> Ti <sub>0.40</sub> )O <sub>3</sub> composites. Materials Research Bulletin, 2010, 45, 1000-1007.	2.7	17

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37	Multiferroic properties of Ni ferrite-PLZT composites. Physica B: Condensed Matter, 2010, 405, 340-344.	1.3	60
38	Magnetostrictive properties of nanocrystalline Co-Ni ferrites. Physica B: Condensed Matter, 2010, 405, 3594-3598.	1.3	52
39	Composition dependent electrical, dielectric, magnetic and magnetoelectric properties of $(x)\text{Co}_0.5\text{Zn}_0.5\text{Fe}_2\text{O}_4+(1-x)\text{PLZT}$ composites. Journal of Alloys and Compounds, 2010, 493, 601-608.	2.8	53
40	Structural, dielectric properties and AC conductivity of $\text{Ni}(1-x)\text{Zn}_x\text{Fe}_2\text{O}_4$ spinel ferrites. Journal of Alloys and Compounds, 2010, 502, 231-237.	2.8	116
41	Dielectric properties of chemically co-precipitated tetragonal $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_0.65\text{Ti}_{0.35}\text{O}_3$ . Solid State Sciences, 2010, 12, 1534-1539.	1.5	6
42	Effect of magnetostrictive phase on structural, dielectric and electrical properties of $\text{NiFe}_2\text{O}_4+\text{Pb}_{0.93}\text{La}_{0.07}(\text{Zr}_{0.60}\text{Ti}_{0.40})\text{O}_3$ composites. Solid State Sciences, 2009, 11, 1979-1984.	1.5	16
43	Composition dependent phase connectivity, dielectric and magnetoelectric properties of magnetoelectric composites with $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_0.67\text{Ti}_{0.33}\text{O}_3$ as piezoelectric phase. Materials Research Bulletin, 2009, 44, 2194-2200.	2.7	19
44	Effect of the piezomagnetic $\text{NiFe}_2\text{O}_4$ phase on the piezoelectric $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})_{0.67}\text{Ti}_{0.33}\text{O}_3$ phase in magnetoelectric composites. Smart Materials and Structures, 2009, 18, 065014.	1.8	33
45	Anomalous electrical properties of nanocrystalline Ni-Zn ferrite. Journal of Materials Science, 2008, 43, 2018-2025.	1.7	92
46	Magnetoelectric properties of ME particulate composites. Journal of Materials Science, 2008, 43, 2708-2712.	1.7	22
47	Dielectric and ferroelectric properties of PMN-PT- $\text{CoFe}_2\text{O}_4$ composites. , 2008, , .		1