

# 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	CH <sub>3</sub> NH <sub>3</sub> PbCl <sub>3</sub> Single Crystals: Inverse Temperature Crystallization and Visible-Blind UV-Photodetector. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3781-3786.	2.1	636
2	Ambipolar solution-processed hybrid perovskite phototransistors. <i>Nature Communications</i> , 2015, 6, 8238.	5.8	519
3	Perovskite Oxide SrTiO <sub>3</sub> as an Efficient Electron Transporter for Hybrid Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28494-28501.	1.5	251
4	Hybrid Perovskite Thin-Film Photovoltaics: In Situ Diagnostics and Importance of the Precursor Solvate Phases. <i>Advanced Materials</i> , 2017, 29, 1604113.	11.1	155
5	Metal Oxides as Efficient Charge Transporters in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602803.	10.2	147
6	Schottky junctions on perovskite single crystals: light-modulated dielectric constant and self-biased photodetection. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8304-8312.	2.7	134
7	Atmospheric effects on the photovoltaic performance of hybrid perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 137, 6-14.	3.0	117
8	Structural, dielectric properties and AC conductivity of Ni(1-x)ZnxFe2O4 spinel ferrites. <i>Journal of Alloys and Compounds</i> , 2010, 502, 231-237.	2.8	116
9	Fast Crystallization and Improved Stability of Perovskite Solar Cells with Zn <sub>2</sub> SnO <sub>4</sub> Electron Transporting Layer: Interface Matters. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 28404-28411.	4.0	103
10	Facile Synthesis and High Performance of a New Carbazole-Based Hole-Transporting Material for Hybrid Perovskite Solar Cells. <i>ACS Photonics</i> , 2015, 2, 849-855.	3.2	99
11	Impact of collected sunlight on ZnFe2O4 nanoparticles for photocatalytic application. <i>Journal of Colloid and Interface Science</i> , 2018, 527, 289-297.	5.0	96
12	Anomalous electrical properties of nanocrystalline Ni-Zn ferrite. <i>Journal of Materials Science</i> , 2008, 43, 2018-2025.	1.7	92
13	Perovskite solar cells: In pursuit of efficiency and stability. <i>Materials and Design</i> , 2017, 136, 54-80.	3.3	83
14	Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , 2018, 30, e1801661.	11.1	79
15	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. <i>Small</i> , 2013, 9, 2091-2096.	5.2	73
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	Multiferroic properties of Ni ferrite-PLZT composites. <i>Physica B: Condensed Matter</i> , 2010, 405, 340-344.	1.3	60
18	Composition dependent electrical, dielectric, magnetic and magnetoelectric properties of (x)Co <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> +(1-x)PLZT composites. <i>Journal of Alloys and Compounds</i> , 2010, 493, 601-608.	2.8	53

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19	Magnetostrictive properties of nanocrystalline Co <sup>2+</sup> /Ni ferrites. <i>Physica B: Condensed Matter</i> , 2010, 405, 3594-3598.	1.3	52
20	Improved Morphology and Efficiency of n <sup>+</sup> -i <sup>n</sup> -p Planar Perovskite Solar Cells by Processing with Glycol Ether Additives. <i>ACS Energy Letters</i> , 2017, 2, 1960-1968.	8.8	47
21	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
22	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
23	Mesostructured Fullerene Electrodes for Highly Efficient n <sup>+</sup> -i <sup>n</sup> -p Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2016, 1, 1049-1056.	8.8	37
24	Effect of the piezomagnetic NiFe <sub>2</sub> O <sub>4</sub> phase on the piezoelectric Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> ) <sub>0.67</sub> Ti <sub>0.33</sub> O <sub>3</sub> phase in magnetolectric composites. <i>Smart Materials and Structures</i> , 2009, 18, 065014.	1.8	33
25	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
26	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
27	Magnetolectric properties of particulate and bi-layer PMN-PT/CoFe <sub>2</sub> O <sub>4</sub> composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 695-703.	1.0	25
28	Hybrid tandem quantum dot/organic photovoltaic cells with complementary near infrared absorption. <i>Applied Physics Letters</i> , 2017, 110, 223903.	1.5	23
29	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
30	Magnetolectric properties of ME particulate composites. <i>Journal of Materials Science</i> , 2008, 43, 2708-2712.	1.7	22
31	Dielectric, ferroelectric, magnetic and magnetolectric properties of PMN-PT based ME composites. <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 1423-1429.	1.9	22
32	Diffuse phase transition and magnetolectric 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. <i>Materials Chemistry and Physics</i> , 2010, 119, 395-401.	2.0	21
33	Microstructure-property relationship in magnetolectric bulk composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 740-747.	1.0	21
34	Composition dependent phase connectivity, dielectric and magnetolectric properties of magnetolectric composites with Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> ) <sub>0.67</sub> Ti <sub>0.33</sub> O <sub>3</sub> as piezoelectric phase. <i>Materials Research Bulletin</i> , 2009, 44, 2194-2200.	2.7	19
35	Dielectric, electrical and magnetolectric 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. <i>Materials Research Bulletin</i> , 2010, 45, 1000-1007.	2.7	17
36	Effect of magnetostrictive phase on structural, dielectric and electrical properties of NiFe <sub>2</sub> O <sub>4</sub> +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. <i>Solid State Sciences</i> , 2009, 11, 1979-1984.	1.5	16

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37	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
38	Study on growth of hollow nanoparticles of alumina. <i>Journal of Materials Science</i> , 2011, 46, 2212-2220.	1.7	11
39	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
40	Impact of Residual Lead Iodide on Photophysical Properties of Lead Triiodide Perovskite Solar Cells. <i>Energy Technology</i> , 2020, 8, 1900627.	1.8	10
41	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
42	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
43	Dielectric properties of chemically co-precipitated tetragonal Pb(Mg <sup>1/3</sup> Nb <sup>2/3</sup> ) <sub>0.65</sub> Ti <sub>0.35</sub> O <sub>3</sub> . <i>Solid State Sciences</i> , 2010, 12, 1534-1539.	1.5	6
44	Perovskite Photovoltaics: Hybrid Perovskite Thin-Film Photovoltaics: In Situ Diagnostics and Importance of the Precursor Solvate Phases ( <i>Adv. Mater.</i> 2/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	3
45	Solar Cells: Overcoming the Ambient Manufacturability-Scalability-Performance Bottleneck in Colloidal Quantum Dot Photovoltaics ( <i>Adv. Mater.</i> 35/2018). <i>Advanced Materials</i> , 2018, 30, 1870260.	11.1	3
46	Dielectric and ferroelectric properties of PMN-PT- CoFe <sub>2</sub> O <sub>4</sub> composites. , 2008, , .		1
47	Magnetically controlled flexible valve for flow manipulation in polymer microfluidic devices. , 2012, , .		1