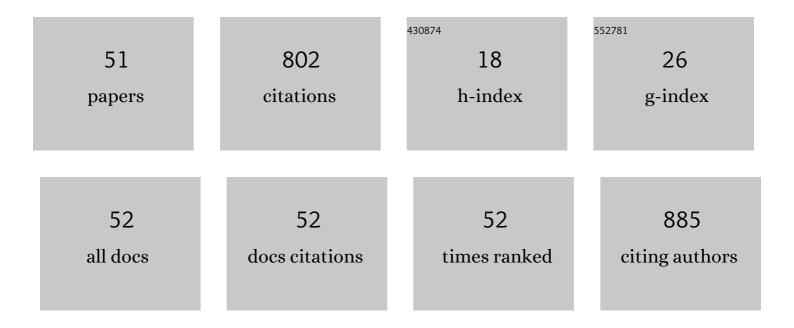
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List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Development of Cuboidal KNbO ₃ @î±-Fe ₂ O ₃ Hybrid Nanostructures for Improved Photocatalytic and Photoelectrocatalytic Applications. ACS Omega, 2020, 5, 20491-20505.	3.5	47
2	Reducing ion migration in methylammonium lead tri-bromide single crystal via lead sulfate passivation. Journal of Applied Physics, 2020, 127, .	2.5	46
3	Influence of A-site cations on the open-circuit voltage of efficient perovskite solar cells: a case of rubidium and guanidinium additives. Journal of Materials Chemistry A, 2019, 7, 8218-8225.	10.3	43
4	Counteraction of Biofilm Formation and Antimicrobial Potential of Terminalia catappa Functionalized Silver Nanoparticles against Candida albicans and Multidrug-Resistant Gram-Negative and Gram-Positive Bacteria. Antibiotics, 2021, 10, 725.	3.7	38
5	Elucidation of the role of guanidinium incorporation in single-crystalline MAPbI ₃ perovskite on ion migration and activation energy. Physical Chemistry Chemical Physics, 2020, 22, 11467-11473.	2.8	36
6	Recent Progress in Growth of Single-Crystal Perovskites for Photovoltaic Applications. ACS Omega, 2021, 6, 1030-1042.	3.5	35
7	Interpretation of Resistance, Capacitance, Defect Density, and Activation Energy Levels in Single-Crystalline MAPbI ₃ . Journal of Physical Chemistry C, 2020, 124, 3496-3502.	3.1	33
8	AIE active multianalyte fluorescent probe for the detection of Cu2+, Ni2+ and Hg2+ ions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 201, 54-60.	3.9	31
9	Changes in the Electrical Characteristics of Perovskite Solar Cells with Aging Time. Molecules, 2020, 25, 2299.	3.8	31
10	Metal Halide Perovskites for Energy Storage Applications. European Journal of Inorganic Chemistry, 2021, 2021, 1201-1212.	2.0	29
11	Constructing anatase TiO2/Amorphous Nb2O5 heterostructures to enhance photocatalytic degradation of acetaminophen and nitrogen oxide. Journal of Colloid and Interface Science, 2021, 601, 346-354.	9.4	29
12	A review on perovskite materials with solar cell prospective. International Journal of Energy Research, 2021, 45, 19729-19745.	4.5	28
13	AIE active turn-off fluorescent probe for the detection of Cu 2+ ions. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 183, 84-89.	3.9	26
14	The effect of anchoring groups on the electro-optical and charge injection in triphenylamine derivatives@ Ti ₆ O ₁₂ . Journal of Theoretical and Computational Chemistry, 2015, 14, 1550027.	1.8	25
15	Evaluation of humidity sensing properties of TMBHPET thin film embedded with spinel cobalt ferrite nanoparticles. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	22
16	Vanadium Sulfide@Sulfur Composites as Highâ€Performance Cathode for Advanced Lithium–Sulfur Batteries. Energy Technology, 2020, 8, 1901163.	3.8	21
17	Colorimetric optical chemosensor of toxic metal ion (Hg2+) and biological activity using green synthesized AgNPs. Green Chemistry Letters and Reviews, 2018, 11, 484-491.	4.7	20
18	Mesoscopic TiO ₂ /Nb ₂ O ₅ Electron Transfer Layer for Efficient and Stable Perovskite Solar Cells. Advanced Materials Interfaces, 2021, 8, 2100177.	3.7	20

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19	A Combined Experimental and Computational Investigation on Spectroscopic and Photophysical Properties of a Coumarinyl Chalcone. Journal of Fluorescence, 2016, 26, 1357-1365.	2.5	16
20	Current scenario of CNG vehicular pollution and their possible abatement technologies: an overview. Environmental Science and Pollution Research, 2020, 27, 39977-40000.	5.3	16
21	In the Quest of Lowâ€Frequency Impedance Spectra of Efficient Perovskite Solar Cells. Energy Technology, 2021, 9, 2100229.	3.8	16
22	Fabrication of Metal (Cu and Cr) Incorporated Nickel Oxide Films for Electrochemical Oxidation of Methanol. Crystals, 2021, 11, 1398.	2.2	16
23	Quinazolinone derivative: Model compound for determination of dipole moment, solvatochromism and metal ion sensing. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 171, 97-103.	3.9	15
24	Effect of Strontium Doping on the Band Gap of \$\$hbox {CeO}_{2}\$\$ CeO 2 Nanoparticles Synthesized Using Facile Co-precipitation. Arabian Journal for Science and Engineering, 2019, 44, 6295-6302.	3.0	15
25	Role of the spacer cation in the growth and crystal orientation of two-dimensional perovskites. Sustainable Energy and Fuels, 2021, 5, 1255-1279.	4.9	14
26	Influence of the A-site cation on hysteresis and ion migration in lead-free perovskite single crystals. Physical Review Materials, 2022, 6, .	2.4	13
27	Quenching Assisted Reverse Micellar Synthesis and Electrical Properties of High Surface Area BiFeO ₃ Nanoparticles. Journal of Nanoscience and Nanotechnology, 2020, 20, 3823-3831.	0.9	12
28	Precise and Prompt Analyte Detection via Ordered Orientation of Receptor in WSe2-Based Field Effect Transistor. Nanomaterials, 2022, 12, 1305.	4.1	11
29	Gold Nanoparticles as Efficient Catalysts in Organic Transformations. Current Pharmaceutical Biotechnology, 2021, 22, 724-732.	1.6	9
30	Interface Engineering of Mesoscopic Perovskite Solar Cells by Atomic Layer Deposition of Ta ₂ O ₅ . ACS Applied Energy Materials, 2021, 4, 10433-10441.	5.1	9
31	Conductive Zn(<scp>ii</scp>)-metallohydrogels: the role of alkali metal cation size in gelation, rheology and conductance. Molecular Systems Design and Engineering, 2021, 6, 654-661.	3.4	8
32	Investigation of the Mechanism Behind Conductive Fluorescent and Multistimuliâ€responsive Li + â€enriched Metallogel Formation. Chemistry - an Asian Journal, 2020, 15, 3020-3028.	3.3	7
33	Li ⁺ –Zn ²⁺ tailored nanostructured metallohydrogel based mixed ionic–electronic conductors. Sustainable Energy and Fuels, 2021, 5, 1708-1713.	4.9	7
34	Transformation of diffusive to capacitive kinetics in nanoscale modified Co-TiO2@CNTs composites safeguarding steady reversible capacity as sodium-ion battery anode. Journal of Alloys and Compounds, 2022, 902, 163772.	5.5	7
35	Investigation on the Facet-Dependent Anisotropy in Halide Perovskite Single Crystals. Journal of Physical Chemistry C, 2022, 126, 8906-8912.	3.1	7
36	Porous Titanium Oxide Microspheres as Promising Catalyst for Lithium–Oxygen Batteries. Energy Technology, 2020, 8, 1901257.	3.8	6

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37	Recent Progress of Light Intensityâ€Modulated Small Perturbation Techniques in Perovskite Solar Cells. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	2.4	6
38	In Vitro Antimicrobial Activity and Metal Ion Sensing by Green Synthesized Silver Nanoparticles from Fruits of Opuntia Ficus Indica Grown in the Abha Region, Saudi Arabia. Arabian Journal for Science and Engineering, 2019, 44, 43-49.	3.0	4
39	ldentification of defects and defect energy distribution in the perovskite layer of MAPbl _{3â^x} Cl _x perovskite solar cell. Materials Research Express, 2019, 6, 105510.	1.6	4
40	Zirconium-Ferrite Nanoparticles As Improved Adsorbent for Co2+, Cu2+, and Zn2+: Thermodynamic and Kinetic Studies. Russian Journal of Physical Chemistry A, 2020, 94, 2797-2809.	0.6	4
41	Combinatorial synthesis of tin antimony sulfide thin films for solar cell application. International Journal of Energy Research, 2021, 45, 21527-21533.	4.5	4
42	Design and synthesis of organic dyes with various donor groups: promising dyes for dye-sensitized solar cells. Bulletin of Materials Science, 2020, 43, 1.	1.7	3
43	Study of transport and recombination mechanism in hole transporter free perovskite solar cell. Materials Research Express, 2018, 5, 105508.	1.6	2
44	Anthracene Based AIE Active Probe for Colorimetric and Fluorimetric Detection of Cu ²⁺ Ions. Zeitschrift Fur Physikalische Chemie, 2019, 233, 895-911.	2.8	2
45	Comparative Adsorption of Pb2+ on Nanostructured Iron–Zirconium Oxide with Fe-to-Zr Molar Ratio of 1:1 and 1:2: Thermodynamic and Kinetic Studies. Arabian Journal for Science and Engineering, 2021, 46, 287-300.	3.0	2
46	A Study on Optoelectronic Properties of Copper Zinc Tin Sulfur Selenide: A Promising Thinâ€Film Material for Next Generation Solar Technology. Crystal Research and Technology, 2021, 56, 2000159.	1.3	2
47	Band alignment and carrier recombination roles on the open circuit voltage of ETLâ€passivated perovskite photovoltaics. International Journal of Energy Research, 2022, 46, 6022-6030.	4.5	2
48	Electro-analytical comparison of commercial mono-crystalline silicon and PERC solar cells to maximize performance. Engineering Research Express, 2020, 2, 045018.	1.6	1
49	Analysis of Pitting Corrosion of Pipelines in a Marine Corrosive Environment Using COMSOL Multiphysics. Journal of Bio- and Tribo-Corrosion, 2022, 8, 1.	2.6	1
50	Investigations of the physical behavior of novel polymorphs of indium phosphide from a first-principles perspective. European Physical Journal Plus, 2022, 137, 1.	2.6	1
51	Optoelectronic properties of thermally coated tin selenide thin films for photovoltaics. International Journal of Energy Research, 2022, 46, 3725-3731.	4.5	0