

Abul Kalam

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

802
citations

430874

18
h-index

552781

26
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52
all docs

52
docs citations

52
times ranked

885
citing authors

#	ARTICLE	IF	CITATIONS
1	Optoelectronic properties of thermally coated tin selenide thin films for photovoltaics. International Journal of Energy Research, 2022, 46, 3725-3731.	4.5	0
2	Transformation of diffusive to capacitive kinetics in nanoscale modified Co-TiO ₂ @CNTs composites safeguarding steady reversible capacity as sodium-ion battery anode. Journal of Alloys and Compounds, 2022, 902, 163772.	5.5	7
3	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
4	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
5	Band alignment and carrier recombination roles on the open circuit voltage of ETL-passivated perovskite photovoltaics. International Journal of Energy Research, 2022, 46, 6022-6030.	4.5	2
6	Recent Progress of Light Intensity-Modulated Small Perturbation Techniques in Perovskite Solar Cells. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	2.4	6
7	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
8	Precise and Prompt Analyte Detection via Ordered Orientation of Receptor in WSe ₂ -Based Field Effect Transistor. Nanomaterials, 2022, 12, 1305.	4.1	11
9	Investigation on the Facet-Dependent Anisotropy in Halide Perovskite Single Crystals. Journal of Physical Chemistry C, 2022, 126, 8906-8912.	3.1	7
10	Comparative Adsorption of Pb ²⁺ 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
11	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
12	Conductive Zn-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
13	Recent Progress in Growth of Single-Crystal Perovskites for Photovoltaic Applications. ACS Omega, 2021, 6, 1030-1042.	3.5	35
14	Metal Halide Perovskites for Energy Storage Applications. European Journal of Inorganic Chemistry, 2021, 2021, 1201-1212.	2.0	29
15	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
16	A Study on Optoelectronic Properties of Copper Zinc Tin Sulfur Selenide: A Promising Thin-Film Material for Next Generation Solar Technology. Crystal Research and Technology, 2021, 56, 2000159.	1.3	2
17	Gold Nanoparticles as Efficient Catalysts in Organic Transformations. Current Pharmaceutical Biotechnology, 2021, 22, 724-732.	1.6	9
18	In the Quest of Low-Frequency Impedance Spectra of Efficient Perovskite Solar Cells. Energy Technology, 2021, 9, 2100229.	3.8	16

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19	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. <i>Antibiotics</i> , 2021, 10, 725.	3.7	38
20	A review on perovskite materials with solar cell prospective. <i>International Journal of Energy Research</i> , 2021, 45, 19729-19745.	4.5	28
21	Combinatorial synthesis of tin antimony sulfide thin films for solar cell application. <i>International Journal of Energy Research</i> , 2021, 45, 21527-21533.	4.5	4
22	Constructing anatase TiO ₂ /Amorphous Nb ₂ O ₅ heterostructures to enhance photocatalytic degradation of acetaminophen and nitrogen oxide. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 346-354.	9.4	29
23	Li ⁺ /Zn ²⁺ tailored nanostructured metallohydrogel based mixed ionic/electronic conductors. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1708-1713.	4.9	7
24	Interface Engineering of Mesoscopic Perovskite Solar Cells by Atomic Layer Deposition of Ta ₂ O ₅ . <i>ACS Applied Energy Materials</i> , 2021, 4, 10433-10441.	5.1	9
25	Fabrication of Metal (Cu and Cr) Incorporated Nickel Oxide Films for Electrochemical Oxidation of Methanol. <i>Crystals</i> , 2021, 11, 1398.	2.2	16
26	Vanadium Sulfide@Sulfur Composites as High-Performance Cathode for Advanced Lithium-Sulfur Batteries. <i>Energy Technology</i> , 2020, 8, 1901163.	3.8	21
27	Porous Titanium Oxide Microspheres as Promising Catalyst for Lithium-Oxygen Batteries. <i>Energy Technology</i> , 2020, 8, 1901257.	3.8	6
28	Zirconium-Ferrite Nanoparticles As Improved Adsorbent for Co ²⁺ , Cu ²⁺ , and Zn ²⁺ : Thermodynamic and Kinetic Studies. <i>Russian Journal of Physical Chemistry A</i> , 2020, 94, 2797-2809.	0.6	4
29	Investigation of the Mechanism Behind Conductive Fluorescent and Multistimuli-responsive Li ⁺ -enriched Metallogel Formation. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3020-3028.	3.3	7
30	Development of Cuboidal KNbO ₃ @Fe ₂ O ₃ Hybrid Nanostructures for Improved Photocatalytic and Photoelectrocatalytic Applications. <i>ACS Omega</i> , 2020, 5, 20491-20505.	3.5	47
31	Current scenario of CNG vehicular pollution and their possible abatement technologies: an overview. <i>Environmental Science and Pollution Research</i> , 2020, 27, 39977-40000.	5.3	16
32	Design and synthesis of organic dyes with various donor groups: promising dyes for dye-sensitized solar cells. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	1.7	3
33	Changes in the Electrical Characteristics of Perovskite Solar Cells with Aging Time. <i>Molecules</i> , 2020, 25, 2299.	3.8	31
34	Reducing ion migration in methylammonium lead tri-bromide single crystal via lead sulfate passivation. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	46
35	Quenching Assisted Reverse Micellar Synthesis and Electrical Properties of High Surface Area BiFeO ₃ Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 3823-3831.	0.9	12
36	Interpretation of Resistance, Capacitance, Defect Density, and Activation Energy Levels in Single-Crystalline MAPbI ₃ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 3496-3502.	3.1	33

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37	Elucidation of the role of guanidinium incorporation in single-crystalline MAPbI ₃ perovskite on ion migration and activation energy. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11467-11473.	2.8	36
38	Electro-analytical comparison of commercial mono-crystalline silicon and PERC solar cells to maximize performance. <i>Engineering Research Express</i> , 2020, 2, 045018.	1.6	1
39	In Vitro Antimicrobial Activity and Metal Ion Sensing by Green Synthesized Silver Nanoparticles from Fruits of <i>Opuntia Ficus Indica</i> Grown in the Abha Region, Saudi Arabia. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 43-49.	3.0	4
40	Identification of defects and defect energy distribution in the perovskite layer of MAPbI _{3-x} Cl _x perovskite solar cell. <i>Materials Research Express</i> , 2019, 6, 105510.	1.6	4
41	Effect of Strontium Doping on the Band Gap of CeO_2 Nanoparticles Synthesized Using Facile Co-precipitation. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 6295-6302.	3.0	15
42	Influence of A-site cations on the open-circuit voltage of efficient perovskite solar cells: a case of rubidium and guanidinium additives. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8218-8225.	10.3	43
43	Anthracene Based AIE Active Probe for Colorimetric and Fluorimetric Detection of Cu ²⁺ ions. <i>Zeitschrift Fur Physikalische Chemie</i> , 2019, 233, 895-911.	2.8	2
44	AIE active multianalyte fluorescent probe for the detection of Cu ²⁺ , Ni ²⁺ and Hg ²⁺ ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 201, 54-60.	3.9	31
45	Colorimetric optical chemosensor of toxic metal ion (Hg ²⁺) and biological activity using green synthesized AgNPs. <i>Green Chemistry Letters and Reviews</i> , 2018, 11, 484-491.	4.7	20
46	Study of transport and recombination mechanism in hole transporter free perovskite solar cell. <i>Materials Research Express</i> , 2018, 5, 105508.	1.6	2
47	AIE active turn-off fluorescent probe for the detection of Cu ²⁺ ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 183, 84-89.	3.9	26
48	Quinazolinone derivative: Model compound for determination of dipole moment, solvatochromism and metal ion sensing. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 171, 97-103.	3.9	15
49	Evaluation of humidity sensing properties of TMBHPET thin film embedded with spinel cobalt ferrite nanoparticles. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	1.9	22
50	A Combined Experimental and Computational Investigation on Spectroscopic and Photophysical Properties of a Coumarinyl Chalcone. <i>Journal of Fluorescence</i> , 2016, 26, 1357-1365.	2.5	16
51	The effect of anchoring groups on the electro-optical and charge injection in triphenylamine derivatives@TiO ₂ . <i>Journal of Theoretical and Computational Chemistry</i> , 2015, 14, 1550027.	1.8	25