

M Aslam

List of Publications by Year in descending order

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69
papers

3,677
citations

126708

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128067

60
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71
all docs

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docs citations

71
times ranked

6153
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel one-step synthesis of amine-stabilized aqueous colloidal gold nanoparticlesElectronic supplementary information (ESI) available: FTIR, TEM, UV-vis and XRD results. See http://www.rsc.org/suppdata/jm/b4/b402823f . Journal of Materials Chemistry, 2004, 14, 1795.	6.7	303
2	Freely Dispersible Au@TiO ₂ , Au@ZrO ₂ , Ag@TiO ₂ , and Ag@ZrO ₂ Core-Shell Nanoparticles: A One-Step Synthesis, Characterization, Spectroscopy, and Optical Limiting Properties. Langmuir, 2003, 19, 3439-3445.	1.6	267
3	Iron oxide nanorods as high-performance magnetic resonance imaging contrast agents. Nanoscale, 2015, 7, 9174-9184.	2.8	203
4	Porosity and photocatalytic studies of transition metal doped ZnO nanoclusters. Microporous and Mesoporous Materials, 2010, 134, 195-202.	2.2	186
5	Aqueous Synthesis of Mn- and Co-Doped ZnO Nanorods. Journal of Physical Chemistry C, 2010, 114, 11758-11763.	1.5	170
6	Surface controlled synthesis of MFe ₂ O ₄ (M = Mn, Fe, Co, Ni and Zn) nanoparticles and their magnetic characteristics. CrystEngComm, 2013, 15, 524-532.	1.3	159
7	Verwey Transition in Ultrasmall-Sized Octahedral Fe ₃ O ₄ Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 19356-19362.	1.5	159
8	Novel and efficient MR active aqueous colloidal Fe ₃ O ₄ nanoassemblies. Journal of Materials Chemistry, 2009, 19, 7023.	6.7	144
9	Self-Aggregation and Assembly of Size-Tunable Transition Metal Doped ZnO Nanocrystals. Journal of Physical Chemistry C, 2008, 112, 15163-15170.	1.5	103
10	Synthesis of Amine-Stabilized Aqueous Colloidal Iron Oxide Nanoparticles. Crystal Growth and Design, 2007, 7, 471-475.	1.4	97
11	Enzymatic and non-enzymatic electrochemical glucose sensor based on carbon nano-onions. Applied Surface Science, 2018, 442, 332-341.	3.1	93
12	Effect of Fe doping concentration on optical and magnetic properties of ZnO nanorods. Nanotechnology, 2012, 23, 115601.	1.3	88
13	Cation/Anion Substitution in Cu ₂ ZnSnS ₄ for Improved Photovoltaic Performance. Scientific Reports, 2016, 6, 35369.	1.6	83
14	Defect induced high photocurrent in solution grown vertically aligned ZnO nanowire array films. Journal of Applied Physics, 2012, 112, .	1.1	76
15	Electrochemical synthesis of graphene quantum dots from graphene oxide at room temperature and its soil moisture sensing properties. Carbon, 2020, 165, 9-17.	5.4	76
16	Nanoscale assembly of amine-functionalized colloidal iron oxide. Journal of Magnetism and Magnetic Materials, 2009, 321, 1529-1532.	1.0	75
17	Understanding the Li-storage in few layers graphene with respect to bulk graphite: experimental, analytical and computational study. Journal of Materials Chemistry A, 2017, 5, 8662-8679.	5.2	70
18	Superspin glass behavior of self-interacting CoFe ₂ O ₄ nanoparticles. Journal of Alloys and Compounds, 2015, 628, 416-423.	2.8	64

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19	Graphene quantum dot soil moisture sensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 233, 582-590.	4.0	58
20	Graphene oxide based soil moisture microsensor for in situ agriculture applications. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1660-1669.	4.0	57
21	Polymer-mediated shape-selective synthesis of ZnO nanostructures using a single-step aqueous approach. <i>CrystEngComm</i> , 2009, 11, 1920.	1.3	54
22	Correlations between preparation methods, structural features and electrochemical Li-storage behavior of reduced graphene oxide. <i>Nanoscale</i> , 2017, 9, 11303-11317.	2.8	52
23	Hydrogen-incorporated ZnO nanowire films: stable and high electrical conductivity. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 485104.	1.3	49
24	Applications of self-assembled monolayers in materials chemistry. <i>Journal of Chemical Sciences</i> , 2001, 113, 659-670.	0.7	47
25	Hysteresis and charge trapping in graphene quantum dots. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	46
26	Controlled optical and magnetic properties of ZnO nanorods by Ar ion irradiation. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	41
27	Improved structural and optical properties of Cu ₂ ZnSnS ₄ thin films via optimized potential in single bath electrodeposition. <i>Electrochimica Acta</i> , 2014, 137, 154-163.	2.6	41
28	Understanding the processing-structure-performance relationship of graphene and its variants as anode material for Li-ion batteries: A critical review. <i>Carbon</i> , 2020, 156, 130-165.	5.4	41
29	Hydrophobic Organization of Monolayer-Protected Au Clusters on Thiol-Functionalized Au(111) Surfaces. <i>Langmuir</i> , 2001, 17, 7487-7493.	1.6	38
30	Preparation and characterisation of silver quantum dot superlattice using self-assembled monolayers of pentanedithiol. <i>Journal of Materials Chemistry</i> , 2001, 11, 1710-1714.	6.7	37
31	Insight into the mechanical integrity of few-layers graphene upon lithiation/delithiation via in situ monitoring of stress development. <i>Carbon</i> , 2015, 88, 206-214.	5.4	37
32	Role of defect states in magnetic and electrical properties of ZnO nanowires. <i>AIP Advances</i> , 2013, 3, .	0.6	35
33	Enhancement of magnetic heating efficiency in size controlled MFe ₂ O ₄ (M = Tj ETQq1 1.7 0.784314 rgBT /Cve	1.7	33
34	Influence of the Cu ₂ ZnSnS ₄ nanoparticles size on solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , 2019, 189, 125-132.	3.0	31
35	Controlled Synthesis and Stability of Co@SiO ₂ Aqueous Colloids. <i>Journal of the American Ceramic Society</i> , 2007, 90, 950-956.	1.9	30
36	pH-DEPENDENT SYNTHESIS OF STABILIZED GOLD NANOPARTICLES USING ASCORBIC ACID. <i>International Journal of Nanoscience</i> , 2011, 10, 857-860.	0.4	28

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37	Feasibility of Reversible Electrochemical Na-Storage and Cyclic Stability of Amorphous Silicon and Silicon-Graphene Film Electrodes. <i>Journal of the Electrochemical Society</i> , 2017, 164, A2559-A2565.	1.3	28
38	Enhanced Visible Light Absorption in Layered Cs ₃ Bi ₂ Br ₉ Halide Perovskites: Heterovalent Pb ²⁺ Substitution-Induced Defect Band Formation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19484-19491.	1.5	28
39	Effect of Chain Length and the Nature of the Monolayer on the Electrical Behavior of Hydrophobically Organized Gold Clusters. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13567-13574.	1.2	27
40	Controlled synthesis and enhanced tunnelling magnetoresistance in oriented Fe ₃ O ₄ nanorod assemblies. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 085002.	1.3	27
41	Enhanced and Faster Potassium Storage in Graphene with Respect to Graphite: A Comparative Study with Lithium Storage. <i>ACS Nano</i> , 2019, 13, 2190-2204.	7.3	27
42	Preparation, characterization and mechanistic features of zirconia films on bare and functionalized gold surfaces. <i>Journal of Materials Chemistry</i> , 2000, 10, 1737-1743.	6.7	26
43	Defect controlled water splitting characteristics of gold nanoparticle functionalized ZnO nanowire films. <i>RSC Advances</i> , 2014, 4, 20955-20963.	1.7	26
44	Large tunneling magnetoresistance in octahedral Fe ₃ O ₄ nanoparticles. <i>AIP Advances</i> , 2016, 6, .	0.6	26
45	Insulator-metal transition in Coulomb blockade nanostructures. <i>Applied Physics Letters</i> , 2001, 79, 689-691.	1.5	25
46	Fabrication and properties of Co doped ZnO spherical assemblies. <i>Journal of Alloys and Compounds</i> , 2014, 587, 282-286.	2.8	23
47	Octahedral-Shaped Fe ₃ O ₄ Nanoparticles With Enhanced Specific Absorption Rate and Relaxivity. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-3.	1.2	22
48	Device applications of self-assembled monolayers and monolayer-protected nanoclusters. <i>Current Applied Physics</i> , 2003, 3, 115-127.	1.1	21
49	Controlled fabrication of oriented co-doped ZnO clustered nanoassemblies. <i>Journal of Colloid and Interface Science</i> , 2010, 349, 19-26.	5.0	21
50	Highly sensitive few-layer MoS ₂ nanosheets as a stable soil moisture and humidity sensor. <i>Sensors and Actuators B: Chemical</i> , 2022, 365, 131930.	4.0	21
51	Composition-Controlled Synthesis of Hybrid Perovskite Nanoparticles by Ionic Metathesis: Bandgap Engineering Studies from Experiments and Theoretical Calculations. <i>Chemistry - A European Journal</i> , 2019, 25, 9892-9901.	1.7	18
52	Spontaneous anion-exchange synthesis of optically active mixed-valence Cs ₂ Au ₂ Cl ₆ perovskites from layered CsAuCl ₄ perovskites. <i>Chemical Communications</i> , 2021, 57, 1478-1481.	2.2	18
53	In-Situ Studies toward the Occurrence of Pseudoelasticity in Confined Nanostructured NiTi Films and Its Implications toward Stress Buffering during Electrochemical Li-Alloying/De-Alloying of Si. <i>ACS Applied Energy Materials</i> , 2019, 2, 8181-8196.	2.5	14
54	Mesoscale morphology of airborne core-shell nanoparticle clusters: x-ray laser coherent diffraction imaging. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 164033.	0.6	12

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55	Preparation and electrical characterisation of dodecanethiol monolayer protected silver nanoclusters. Applied Surface Science, 2001, 182, 338-344.	3.1	11
56	Effect of chain length on the tunneling conductance of gold quantum dots at room temperature. Journal of Applied Physics, 2003, 94, 3663-3665.	1.1	11
57	Lower limit to Si-dimension for retaining graphenic carbon based "buffer"™ effective towards bestowing Si-electrodes with cyclic stability. Carbon, 2020, 165, 428-433.	5.4	11
58	Defects in three-dimensional spherical assemblies of Ni-doped ZnO nanocrystals. Journal of Materials Research, 2009, 24, 3543-3550.	1.2	10
59	Field effect transport properties of chemically treated graphene quantum dots. International Journal of Nanotechnology, 2014, 11, 75.	0.1	8
60	STRUCTURAL, OPTICAL, AND MAGNETIC PROPERTIES OF Gd-DOPED ZnO NANORODS BY A NOVEL AQUEOUS SOLUTION METHOD. International Journal of Nanoscience, 2011, 10, 629-633.	0.4	7
61	Spontaneous Ion Migration via Mechanochemical Ultrasonication in Mixed Halide Perovskite Phase Formation: Experimental and Theoretical Insights. Journal of Physical Chemistry Letters, 2021, 12, 1189-1194.	2.1	7
62	Photoinduced quasi-2D to 3D phase transformation in hybrid halide perovskite nanoplatelets. Physical Chemistry Chemical Physics, 2021, 23, 27355-27364.	1.3	7
63	Facile strategy to synthesize cesium gold-based bromide perovskites: an integrated experimental and theoretical approach to study temperature-dependent structural and optical properties. Journal of Materials Chemistry C, 2022, 10, 4224-4235.	2.7	7
64	Photon induced non-linear quantized double layer charging in quaternary semiconducting quantum dots. Journal of Colloid and Interface Science, 2018, 514, 452-458.	5.0	6
65	CONTROLLED GROWTH OF HIGHLY ORIENTED ZnO NANOROD ARRAY ON AMORPHOUS GLASS SUBSTRATE AND THEIR OPTICAL AND ELECTRICAL PROPERTIES. International Journal of Nanoscience, 2011, 10, 635-639.	0.4	5
66	Roughness enhanced surface defects and photoconductivity of acid etched ZnO nanowires. , 2012, , .		3
67	Growth of Hybrid Perovskite Films via Single-Source Perovskite Nanoparticle Evaporation. Chemistry - an Asian Journal, 2022, 17, .	1.7	3
68	Extraction of graphene/TiN work function using metal oxide semiconductor (MOS) test structure. , 2012, , .		0
69	Magnetic core shell nanostructures with plasmonic properties. , 2013, , .		0