Faisal M Alamgir

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Atomic packing and short-to-medium-range order in metallic glasses. Nature, 2006, 439, 419-425.	13.7	1,758
2	Nanostructured electrodes for lithium-ion and lithium-air batteries: the latest developments, challenges, and perspectives. Materials Science and Engineering Reports, 2011, 72, 203-252.	14.8	467
3	Rational SOFC material design: new advances and tools. Materials Today, 2011, 14, 534-546.	8.3	263
4	Icosahedral Short-Range Order in Amorphous Alloys. Physical Review Letters, 2004, 92, 145502.	2.9	216
5	Direct Spectroscopic Observation of the Structural Origin of Peroxide Generation from Co-Based Pyrolyzed Porphyrins for ORR Applications. Journal of Physical Chemistry C, 2008, 112, 8839-8849.	1.5	215
6	Enhanced Photoassisted Water Electrolysis Using Vertically Oriented Anodically Fabricated Tiâ~'Nbâ~'Zrâ~'O Mixed Oxide Nanotube Arrays. ACS Nano, 2010, 4, 5819-5826.	7.3	85
7	Ultra-high selectivity of H2 over CO with a p-n nanojunction based gas sensors and its mechanism. Sensors and Actuators B: Chemical, 2020, 319, 128330.	4.0	83
8	Tuning of higher alcohol selectivity and productivity in CO hydrogenation reactions over K/MoS2 domains supported on mesoporous activated carbon and mixed MgAl oxide. Journal of Catalysis, 2015, 324, 88-97.	3.1	80
9	Comparative Study of the Capacity and Rate Capability of LiNiyMnyCo1–2yO2 (y = 0.5, 0.45, 0.4, 0.3 Journal of the Electrochemical Society, 2011, 158, A516.	3) _{1.3}	74
10	Elucidating the oxide growth mechanism on platinum at the cathode in PEM fuel cells. Physical Chemistry Chemical Physics, 2014, 16, 5301.	1.3	58
11	Oxygen and transition metal involvement in the charge compensation mechanism of LiNi1/3Mn1/3Co1/3O2 cathodes. Journal of Materials Chemistry, 2012, 22, 19993.	6.7	56
12	In Situ Probing of the Mechanisms of Coking Resistance on Catalyst-Modified Anodes for Solid Oxide Fuel Cells. Chemistry of Materials, 2015, 27, 822-828.	3.2	54
13	Diffusion kinetics mechanism of oxygen ion in dense diffusion barrier limiting current oxygen sensors. Journal of Alloys and Compounds, 2021, 855, 157465.	2.8	54
14	Interface Architecture Determined Electrocatalytic Activity of Pt on Vertically Oriented TiO ₂ Nanotubes. ACS Applied Materials & Interfaces, 2011, 3, 147-151.	4.0	53
15	An Experimental Insight into the Structural and Electronic Characteristics of Strontiumâ€Doped Titanium Dioxide Nanotube Arrays. Advanced Functional Materials, 2014, 24, 6783-6796.	7.8	49
16	Influence of annealing on ionic transfer and storage stability of Li2S–P2S5 solid electrolyte. Journal of Power Sources, 2015, 294, 494-500.	4.0	41
17	Layer-by-Layer Evolution of Structure, Strain, and Activity for the Oxygen Evolution Reaction in Graphene-Templated Pt Monolayers. ACS Applied Materials & Interfaces, 2015, 7, 6180-6188. 	4.0	40
18	Polymeric δ-MgCl2 nanoribbons. Inorganica Chimica Acta, 2006, 359, 2513-2518.	1.2	39

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19	Proton conductivity and methanol permeability study of polymer electrolyte membranes with range of functionalized clay content for fuel cell application. European Polymer Journal, 2019, 110, 155-167.	2.6	36
20	Epitaxial and atomically thin graphene–metal hybrid catalyst films: the dual role of graphene as the support and the chemically-transparent protective cap. Energy and Environmental Science, 2018, 11, 1610-1616.	15.6	34
21	Mixed conductivity evaluation and sensing characteristics of limiting current oxygen sensors. Surfaces and Interfaces, 2020, 21, 100762.	1.5	34
22	Layer-by-Layer Pt Growth on Polycrystalline Au: Surface-Limited Redox Replacement of Overpotentially Deposited Ni Monolayers. Journal of the Electrochemical Society, 2009, 156, D513.	1.3	32
23	<i>In-situ</i> oxygen x-ray absorption spectroscopy investigation of the resistance modulation mechanism in LiNbO2 memristors. Applied Physics Letters, 2012, 100, .	1.5	31
24	Architecture-Dependent Surface Chemistry for Pt Monolayers on Carbon-Supported Au. ACS Applied Materials & Interfaces, 2011, 3, 3948-3956.	4.0	30
25	Operando and Inâ€situ Xâ€ray Spectroscopies of Degradation in La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3â~`<i>δ</i>} Thin Film Cathodes in Fuel Cells. ChemSusChem, 2014, 7, 3078-3087.	3.6	30
26	Cu@Pt catalysts prepared by galvanic replacement of polyhedral copper nanoparticles for polymer electrolyte membrane fuel cells. Electrochimica Acta, 2019, 306, 167-174.	2.6	30
27	Electrical polarization of titanium surfaces for the enhancement of osteoblast differentiation. Bioelectromagnetics, 2013, 34, 599-612.	0.9	28
28	Nuclear Magnetic Resonance and X-Ray Absorption Spectroscopic Studies of Lithium Insertion in Silver Vanadium Oxide Cathodes. Journal of the Electrochemical Society, 2007, 154, A500.	1.3	25
29	Electronic structure of Pd-based bulk metallic glasses. Journal of Non-Crystalline Solids, 2000, 274, 289-293.	1.5	24
30	Near-Edge X-ray Absorption Fine Structure Studies of Electrospun Poly(dimethylsiloxane)/Poly(methyl) Tj ETQq0	0 0 rgBT / 1.6	Overlock 10 T
31	Iron Phosphide Confined in Carbon Nanofibers as a Free-Standing Flexible Anode for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 34074-34083.	4.0	24
32	Pt/graphene with intercalated carbon nanotube spacers introduced by electrostatic self-assembly for fuel cells. Materials Chemistry and Physics, 2019, 225, 371-378.	2.0	23
33	Porous FeP/C composite nanofibers as high-performance anodes for Li-ion/Na-ion batteries. Materials Today Energy, 2020, 16, 100410.	2.5	23
34	Contiguous and Atomically Thin Pt Film with Supraâ€Bulk Behavior Through Grapheneâ€Imposed Epitaxy. Advanced Functional Materials, 2019, 29, 1902274.	7.8	22
35	Cobalt phosphide embedded in a graphene nanosheet network as a high-performance anode for Li-ion batteries. Dalton Transactions, 2019, 48, 7778-7785.	1.6	22

36 Ultrathin silver films on Ni(111). Physical Review B, 2010, 82, .

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37	The structure of a metallic glass system using EXELFS and EXAFS as complementary probes. Micron, 2003, 34, 433-439.	1.1	18
38	<i>In situ</i> investigation of the channel conductance of a Li1â^'xCoO2 (0 < x <â€% ionic-electronic transistor. Applied Physics Letters, 2013, 102, .	50 9. 5)	18
39	Lithium-7 nuclear magnetic resonance and Ti K-edge X-ray absorption spectroscopic investigation of electrochemical lithium insertion in Li4/3+xTi5/3O4. Journal of Power Sources, 2003, 119-121, 631-636.	4.0	17
40	Synthesis of embedded iron nanoparticles in Fe3C-derived carbons. Carbon, 2014, 79, 74-84.	5.4	17
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55	Bandgap bowing in Ta-W-O system for efficient solar energy conversion: Insights from density functional theory and X-ray diffraction. Applied Physics Letters, 2013, 103, 133905.	1.5	9
56	Near Surface Phase Transition of Solute Derived Pt Monolayers. Topics in Catalysis, 2013, 56, 1065-1073.	1.3	8
57	Extended energy-loss fine structure analysis of 3d transition metals using L ionization edges. Philosophical Magazine Letters, 2001, 81, 213-222.	0.5	6
58	Thinâ€Film Lithium Niobites and Their Chemical Properties for Lithiumâ€Ion Storage and Diffusion. ChemElectroChem, 2019, 6, 5109-5115.	1.7	6
59	Substoichiometric Tuning of the Electronic Properties of Titania. Thin Solid Films, 2021, 717, 138437.	0.8	6
60	Immobilization of molecular catalysts on solid supports via atomic layer deposition for chemical synthesis in sustainable solvents. Green Chemistry, 2021, 23, 9523-9533.	4.6	6
61	Synthesis and Characterization of Monolayer Bimetallic Surfaces: A Synchrotron NEXAFS and XPS Study. ECS Transactions, 2009, 19, 97-106.	0.3	5
62	Laser shock compression induced crystallization of Ce3Al metallic glass. Journal of Applied Physics, 2018, 124, 035904.	1.1	2
63	X-ray Absorption Spectroscopy Investigation of the Sub-Nanoscale Strain in Thin-Film Lithium Ion Battery Cathodes. Materials Research Society Symposia Proceedings, 2004, 822, S2.3.1.	0.1	1
64	Towards a perfect system for solar hydrogen production: an example of synergy on the atomic scale. , 2013, , .		1
65	Nanotubes: An Experimental Insight into the Structural and Electronic Characteristics of Strontium-Doped Titanium Dioxide Nanotube Arrays (Adv. Funct. Mater. 43/2014). Advanced Functional Materials, 2014, 24, 6782-6782.	7.8	1
66	Effect of morphology evolution from nanotubes to concatenated nanoparticles of hierarchical TiO2 nanostructures on power conversion efficiency of dye-sensitized solar cells. Journal of Alloys and Compounds, 2017, 708, 508-516.	2.8	1
67	Measured and Calculated Electronic Structure of Ni0.40Pd0.400P0.20 and Cu0.400Pd0.400P0.20. Materials Research Society Symposia Proceedings, 2002, 754, 1.	0.1	Ο
68	Exelfs and Exafs: Complementary Probes into the Structure of Metallic Glasses. Microscopy and Microanalysis, 2002, 8, 608-609.	0.2	0
69	Polymer-carbon nanotube composites: electrospinning, alignment and interactions. , 2014, ,		0
70	Synchrotron X-ray Based <i>Operando</i> Studies of Atomic and Electronic Structure in Batteries. Materials and Energy, 2015, , 79-108.	2.5	0