Ayesha Khan Tareen

List of Publications by Year
in descending order

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Version: 2024-02-01

38 papers	2,294 citations	279798 23 h-index	315739 38 g-index
38 all docs	38 docs citations	38 times ranked	2280 citing authors

#	Article	IF	Citations
1	Two-dimensional materials toward Terahertz optoelectronic device applications. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2022, 51, 100473.	11.6	36
2	Recent Advances in Oxidation Stable Chemistry of 2D MXenes. Advanced Materials, 2022, 34, e2107554.	21.0	163
3	Recent development in emerging phosphorene based novel materials: Progress, challenges, prospects and their fascinating sensing applications. Progress in Solid State Chemistry, 2022, 65, 100336.	7.2	18
4	Mid-Infrared Optoelectronic Devices Based on Two-Dimensional Materials beyond Graphene: Status and Trends. Nanomaterials, 2022, 12, 2260.	4.1	16
5	Confinement in two-dimensional materials: Major advances and challenges in the emerging renewable energy conversion and other applications. Progress in Solid State Chemistry, 2021, 61, 100294.	7.2	24
6	Recent progress, challenges, and prospects in emerging group-VIA Xenes: synthesis, properties and novel applications. Nanoscale, 2021, 13, 510-552.	5.6	23
7	Sensing Applications of Atomically Thin Group IV Carbon Siblings Xenes: Progress, Challenges, and Prospects. Advanced Functional Materials, 2021, 31, 2005957.	14.9	37
8	Broadband Nonlinear Photonics in Fewâ€Layer Borophene. Small, 2021, 17, e2006891.	10.0	42
9	Evolution of low-dimensional material-based field-effect transistors. Nanoscale, 2021, 13, 5162-5186.	5.6	39
10	Novel synthesis, properties and applications of emerging group VA two-dimensional monoelemental materials (2D-Xenes). Materials Chemistry Frontiers, 2021, 5, 6333-6391.	5.9	18
11	Novel emerging graphdiyne based two dimensional materials: Synthesis, properties and renewable energy applications. Nano Today, 2021, 39, 101207.	11.9	49
12	The Silk, Versatile Material for Biological, Optical, and Electronic Fields: Review. Global Journal of Researches in Engineering, 2021, , 1-30.	0.1	1
13	Navigating recent advances in monoelemental materials (Xenes)-fundamental to biomedical applications. Progress in Solid State Chemistry, 2021, 63, 100326.	7.2	20
14	A novel MnOâ€“CrN nanocomposite based non-enzymatic hydrogen peroxide sensor. RSC Advances, 2021, 11, 19316-19322.	3.6	18
15	Recent development in graphdiyne and its derivative materials for novel biomedical applications. Journal of Materials Chemistry B, 2021, 9, 9461-9484.	5.8	19
16	Going green with batteries and supercapacitor: Two dimensional materials and their nanocomposites based energy storage applications. Progress in Solid State Chemistry, 2020, 58, 100254.	7.2	87
17	Recent developments in emerging two-dimensional materials and their applications. Journal of Materials Chemistry C, 2020, 8, 387-440.	5.5	501
18	Progress towards High-Efficiency and Stable Tin-Based Perovskite Solar Cells. Energies, 2020, 13, 5092.	3.1	35

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19	Recent Progress, Challenges, and Prospects in Two-Dimensional Photo-Catalyst Materials and Environmental Remediation. Nano-Micro Letters, 2020, 12, 167.	27.0	57
20	Synthesis, properties and novel electrocatalytic applications of the 2D-borophene Xenes. Progress in Solid State Chemistry, 2020, 59, 100283.	7.2	65
21	Two dimensional nanomaterials-enabled smart light regulation technologies: Recent advances and developments. Optik, 2020, 220, 165191.	2.9	18
22	Recent advances in doping engineering of black phosphorus. Journal of Materials Chemistry A, 2020, 8, 5421-5441.	10.3	93
23	Two-Dimensional Tellurium: Progress, Challenges, and Prospects. Nano-Micro Letters, 2020, 12, 99.	27.0	139
24	Enhancement of mechanical and electrical properties forin-situcompatibilization of immiscible polypropylene/polystyrene blends. Materials Research Express, 2019, 6, 105301.	1.6	11
25	A comprehensive review on synthesis of pristine and doped inorganic room temperature stable mayenite electride, [Ca24Al28O64]4+(eâ^')4 and its applications as a catalyst. Progress in Solid State Chemistry, 2019, 54, 1-19.	7.2	63
26	Nickelâ€Based Transition Metal Nitride Electrocatalysts for the Oxygen Evolution Reaction. ChemSusChem, 2019, 12, 3941-3954.	6.8	150
27	Single step synthesis of highly conductive room-temperature stable cation-substituted mayenite electride target and thin film. Scientific Reports, 2019, 9, 4967.	3.3	21
28	Recent advances in two-dimensional materials and their nanocomposites in sustainable energy conversion applications. Nanoscale, 2019, 11, 21622-21678.	5.6	201
29	Novel Two-Dimensional Carbonâ€“Chromium Nitride-Based Composite as an Electrocatalyst for Oxygen Reduction Reaction. Frontiers in Chemistry, 2019, 7, 738.	3.6	34
30	Fe-doped mayenite electride composite with 2D reduced Graphene Oxide: As a non-platinum based, highly durable electrocatalyst for Oxygen Reduction Reaction. Scientific Reports, 2019, 9, 19809.	3.3	38
31	Mixed ternary transition metal nitrides: A comprehensive review of synthesis, electronic structure, and properties of engineering relevance. Progress in Solid State Chemistry, 2019, 53, 1-26.	7.2	50
32	Facile Synthesis of Mayenite Electride Nanoparticles Encapsulated in Graphitic Shells Like Carbon Nano Onions: Non-noble-metal Electrocatalysts for Oxygen Reduction Reaction (ORR). Frontiers in Chemistry, 2019, 7, 934.	3.6	27
33	Magnetic micro scavengers: highly porous Ni1â^'x Co x Fe2O4 microcubes for efficient disintegration of nitrophenol. Nanotechnology, 2018, 29, 215710.	2.6	10
34	Facile synthesis of a cationic-doped [Ca₂₄Al₂₈O₆₄]⁴⁺(4e^{â^'}) composite via a rapid citrate solâ€“gel method. Dalton Transactions, 2018, 47, 3819-3830.	3.3	48
35	Facile metal-free reduction-based synthesis of pristine and cation-doped conductive mayenite. RSC Advances, 2018, 8, 24276-24285.	3.6	43
36	Facile synthesis of tin-doped mayenite electride composite as a non-noble metal durable electrocatalyst for oxygen reduction reaction (ORR). Dalton Transactions, 2018, 47, 13498-13506.	3.3	56

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37	Mo-N-co-doped mesoporous TiO2 microspheres with enhanced visible light photocatalytic activity. Materials Research Bulletin, 2017, 96, 10-17.	5.2	21
38	Bimetallic Oxide Nanoflowers Decorated Graphene Oxide Nanosheets as Novel Nanohybrids for 4-Nitrophenol Removal at Room Temperature. Nano Advances, 2017, 2, 1-7.	0.4	3