

Maulik K Patel

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3934817/publications.pdf>

Version: 2024-02-01

35
papers

1,262
citations

430442

18
h-index

360668

35
g-index

35
all docs

35
docs citations

35
times ranked

1993
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal Boride-Based Catalysts for Electrochemical Water-Splitting: A Review. <i>Advanced Functional Materials</i> , 2020, 30, 1906481.	7.8	268
2	A unique amorphous cobalt-phosphide-boride bifunctional electrocatalyst for enhanced alkaline water-splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118051.	10.8	112
3	High temperature ion irradiation effects in MAX phase ceramics. <i>Acta Materialia</i> , 2016, 105, 130-146.	3.8	102
4	Role of Antisite Disorder on Preamorphization Swelling in Titanate Pyrochlores. <i>Physical Review Letters</i> , 2012, 108, 195504.	2.9	85
5	In situ investigation of the formation and metastability of formamidinium lead tri-iodide perovskite solar cells. <i>Energy and Environmental Science</i> , 2016, 9, 2372-2382.	15.6	79
6	Structure and magnetic properties of ZnO films doped with Co, Ni or Mn synthesized by pulsed laser deposition under low and high oxygen partial pressures. <i>Thin Solid Films</i> , 2008, 517, 916-922.	0.8	59
7	Highly Efficient and Selective Metal Oxy-Boride Electrocatalysts for Oxygen Evolution from Alkali and Saline Solutions. <i>ACS Applied Energy Materials</i> , 2020, 3, 7619-7628.	2.5	54
8	Effect of helium irradiation on Ti3AlC2 at 500Å°C. <i>Scripta Materialia</i> , 2014, 77, 1-4.	2.6	51
9	Structural modifications in pyrochlores caused by ions in the electronic stopping regime. <i>Journal of Nuclear Materials</i> , 2008, 380, 93-98.	1.3	50
10	Ag loaded B-doped-g C3N4 nanosheet with efficient properties for photocatalysis. <i>Journal of Environmental Management</i> , 2019, 247, 57-66.	3.8	43
11	Bubble formation and lattice parameter changes resulting from He irradiation of defect-fluorite Gd2Zr2O7. <i>Acta Materialia</i> , 2016, 115, 115-122.	3.8	39
12	Defects induced magnetic transition in Co doped ZnS thin films: Effects of swift heavy ion irradiations. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 2136-2141.	1.0	37
13	Cobalt-Boride Nanostructured Thin Films with High Performance and Stability for Alkaline Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16651-16658.	3.2	30
14	Structure and band gap determination of irradiation-induced amorphous nano-channels in LiNbO3. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	26
15	Revealing Surface Modifications of Potassium-Fluoride-Treated Cu(In,Ga)Se ₂ : A Study of Material Structure, Chemistry, and Photovoltaic Performance. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600013.	1.9	24
16	Microstructure Characterization and Electrical Conductivity Measurement of La _{1-x} Ca _x CrO ₃ (x=0.25, 0.4, 0.5) Prepared by Aspartic Acid-Assisted Solution Combustion. <i>Journal of the American Ceramic Society</i> , 2012, 95, 290-295.	1.9	20
17	Pulsed laser deposition of CoFe2O4/CoO hierarchical-type nanostructured heterojunction forming a Z-scheme for efficient spatial separation of photoinduced electron-hole pairs and highly active surface area. <i>Applied Surface Science</i> , 2019, 489, 584-594.	3.1	20
18	Corrosion behavior of ceramic-coated ZIRLO ₄ exposed to supercritical water. <i>Journal of Nuclear Materials</i> , 2018, 498, 495-504.	1.3	19

#	ARTICLE	IF	CITATIONS
19	Gamma irradiation-induced defects in borosilicate glasses for high-level radioactive waste immobilisation. <i>Journal of Nuclear Materials</i> , 2021, 544, 152702.	1.3	19
20	Improved high temperature radiation damage tolerance in a three-phase ceramic with heterointerfaces. <i>Scientific Reports</i> , 2018, 8, 13993.	1.6	18
21	Combined effects of radiation damage and He accumulation on bubble nucleation in Gd ₂ Ti ₂ O ₇ . <i>Journal of Nuclear Materials</i> , 2016, 479, 542-547.	1.3	16
22	Contrasting the Material Chemistry of Cu ₂ ZnSnSe ₄ and Cu ₂ ZnSnS ₄ (4 ⁺ Se _x). <i>Advanced Science</i> , 2016, 3, 1500320.	5.6	13
23	Radiation damage in multiphase ceramics. <i>Journal of Nuclear Materials</i> , 2013, 443, 120-127.	1.3	12
24	Influence of electronic vs nuclear energy loss in radiation damage of Ti ₃ SiC ₂ . <i>Acta Materialia</i> , 2018, 161, 302-310.	3.8	10
25	Ionizing vs collisional radiation damage in materials: Separated, competing, and synergistic effects in Ti ₃ SiC ₂ . <i>Acta Materialia</i> , 2019, 173, 195-205.	3.8	10
26	Novel Iron-based ternary amorphous oxide semiconductor with very high transparency, electronic conductivity and mobility. <i>Scientific Reports</i> , 2015, 5, 18157.	1.6	9
27	Alkaline Water Oxidation Using a Bimetallic Phospho-Boride Electrocatalyst. <i>ChemSusChem</i> , 2020, 13, 6534-6540.	3.6	8
28	In situ investigation of halide incorporation into perovskite solar cells. <i>MRS Communications</i> , 2017, 7, 575-582.	0.8	7
29	Strong irradiation tolerance to amorphization in delta-Sc ₄ Ti ₃ O ₁₂ . <i>Journal of Nuclear Materials</i> , 2015, 459, 265-269.	1.3	6
30	Divergent short- and long-range behavior in ion-irradiated Sc ₄ Hf ₃ O ₁₂ . <i>Physical Review</i>	0.9	6
31	Radiation Damage of LaMgAl ₁₁ O ₁₉ and CeMgAl ₁₁ O ₁₉ and Magnetoplumbite. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3325-3332.	1.9	3
32	Structure and radiation response of anion excess bixbyite Gd ₂ Ce ₂ O ₇ . <i>Physical Review Materials</i> , 2022, 6, .	0.9	3
33	Structural analysis of Gd ₂ Ce ₂ O ₇ . <i>Materials Research Society Symposia Proceedings</i> , 2015, 1743, 7.	0.1	2
34	Radiation Damage Behavior in Multiphase Ceramics. <i>Microscopy and Microanalysis</i> , 2016, 22, 1464-1465.	0.2	1
35	Structural complexity of Y ₆ BO ₁₂ fluorite-related ternary oxides. <i>MRS Advances</i> , 2021, 6, 107-111.	0.5	1