

Maulik K Patel

List of Publications by Year in descending order

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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	Structure and radiation response of anion excess bixbyite Gd ₂ Ce ₂ O ₇ . Physical Review Materials, 2022, 6, .	0.9	3
2	Gamma irradiation-induced defects in borosilicate glasses for high-level radioactive waste immobilisation. Journal of Nuclear Materials, 2021, 544, 152702.	1.3	19
3	Structural complexity of Y ₆ BO ₁₂ fluorite-related ternary oxides. MRS Advances, 2021, 6, 107-111.	0.5	1
4	Metal Boride-Based Catalysts for Electrochemical Water Splitting: A Review. Advanced Functional Materials, 2020, 30, 1906481.	7.8	268
5	Highly Efficient and Selective Metal Oxy-Boride Electrocatalysts for Oxygen Evolution from Alkali and Saline Solutions. ACS Applied Energy Materials, 2020, 3, 7619-7628.	2.5	54
6	Alkaline Water Oxidation Using a Bimetallic Phospho-Boride Electrocatalyst. ChemSusChem, 2020, 13, 6534-6540.	3.6	8
7	Divergent short- and long-range behavior in ion-irradiated $\text{Sc}_4\text{Hf}_3\text{O}_{12}$. Physical Review Materials, 2020, 4, .	0.9	6
8	A unique amorphous cobalt-phosphide-boride bifunctional electrocatalyst for enhanced alkaline water-splitting. Applied Catalysis B: Environmental, 2019, 259, 118051.	10.8	112
9	Cobalt-Boride Nanostructured Thin Films with High Performance and Stability for Alkaline Water Oxidation. ACS Sustainable Chemistry and Engineering, 2019, 7, 16651-16658.	3.2	30
10	Ag loaded B-doped-g C ₃ N ₄ nanosheet with efficient properties for photocatalysis. Journal of Environmental Management, 2019, 247, 57-66.	3.8	43
11	Pulsed laser deposition of CoFe ₂ O ₄ /CoO hierarchical-type nanostructured heterojunction forming a Z-scheme for efficient spatial separation of photoinduced electron-hole pairs and highly active surface area. Applied Surface Science, 2019, 489, 584-594.	3.1	20
12	Ionizing vs collisional radiation damage in materials: Separated, competing, and synergistic effects in Ti ₃ SiC ₂ . Acta Materialia, 2019, 173, 195-205.	3.8	10
13	Corrosion behavior of ceramic-coated ZIRLO ₄ exposed to supercritical water. Journal of Nuclear Materials, 2018, 498, 495-504.	1.3	19
14	Influence of electronic vs nuclear energy loss in radiation damage of Ti ₃ SiC ₂ . Acta Materialia, 2018, 161, 302-310.	3.8	10
15	Improved high temperature radiation damage tolerance in a three-phase ceramic with heterointerfaces. Scientific Reports, 2018, 8, 13993.	1.6	18
16	In situ investigation of halide incorporation into perovskite solar cells. MRS Communications, 2017, 7, 575-582.	0.8	7
17	Radiation Damage Behavior in Multiphase Ceramics. Microscopy and Microanalysis, 2016, 22, 1464-1465.	0.2	1
18	In situ investigation of the formation and metastability of formamidinium lead tri-iodide perovskite solar cells. Energy and Environmental Science, 2016, 9, 2372-2382.	15.6	79

#	ARTICLE	IF	CITATIONS
19	Combined effects of radiation damage and He accumulation on bubble nucleation in Gd ₂ Ti ₂ O ₇ . Journal of Nuclear Materials, 2016, 479, 542-547.	1.3	16
20	Contrasting the Material Chemistry of Cu ₂ ZnSnSe ₄ and Cu ₂ ZnSnS ₄ (4 ⁺ _x Se _x). Advanced Science, 2016, 3, 1500320.	5.6	13
21	Revealing Surface Modifications of Potassium-Fluoride-treated Cu(In,Ga)Se ₂ : A Study of Material Structure, Chemistry, and Photovoltaic Performance. Advanced Materials Interfaces, 2016, 3, 1600013.	1.9	24
22	Bubble formation and lattice parameter changes resulting from He irradiation of defect-fluorite Gd ₂ Zr ₂ O ₇ . Acta Materialia, 2016, 115, 115-122.	3.8	39
23	High temperature ion irradiation effects in MAX phase ceramics. Acta Materialia, 2016, 105, 130-146.	3.8	102
24	Novel Iron-based ternary amorphous oxide semiconductor with very high transparency, electronic conductivity and mobility. Scientific Reports, 2015, 5, 18157.	1.6	9
25	Structure and band gap determination of irradiation-induced amorphous nano-channels in LiNbO ₃ . Journal of Applied Physics, 2015, 117, .	1.1	26
26	Structural analysis of Gd ₂ Ce ₂ O ₇ . Materials Research Society Symposia Proceedings, 2015, 1743, 7.	0.1	2
27	Strong irradiation tolerance to amorphization in delta-Sc ₄ Ti ₃ O ₁₂ . Journal of Nuclear Materials, 2015, 459, 265-269.	1.3	6
28	Effect of helium irradiation on Ti ₃ AlC ₂ at 500 ^o C. Scripta Materialia, 2014, 77, 1-4.	2.6	51
29	Radiation damage in multiphase ceramics. Journal of Nuclear Materials, 2013, 443, 120-127.	1.3	12
30	Radiation Damage of LaMgAl ₁₁ O ₁₉ and CeMgAl ₁₁ O ₁₉ Magnetoplumbite. Journal of the American Ceramic Society, 2013, 96, 3325-3332.	1.9	3
31	Role of Antisite Disorder on Preamorphization Swelling in Titanate Pyrochlores. Physical Review Letters, 2012, 108, 195504.	2.9	85
32	Microstructure Characterization and Electrical Conductivity Measurement of La ^x Ca _x CrO ₃ (x=0.25, 0.4, 0.5) Prepared by Aspartic Acid-Assisted Solution Combustion. Journal of the American Ceramic Society, 2012, 95, 290-295.	1.9	20
33	Defects induced magnetic transition in Co doped ZnS thin films: Effects of swift heavy ion irradiations. Journal of Magnetism and Magnetic Materials, 2012, 324, 2136-2141.	1.0	37
34	Structural modifications in pyrochlores caused by ions in the electronic stopping regime. Journal of Nuclear Materials, 2008, 380, 93-98.	1.3	50
35	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. Thin Solid Films, 2008, 517, 916-922.	0.8	59