Anamul H Mir

List of Publications by Year
in descending order

21 papers	440 citations	759233 12 h-index	794594 19 g-index
21 all docs	21 docs citations	21 times ranked	364 citing authors

#	ARTICLE	IF	CITATIONS
1	Mono and sequential ion irradiation induced damage formation and damage recovery in oxide glasses: Stopping power dependence of the mechanical properties. Journal of Nuclear Materials, 2016, 469, 244-250.	2.7	62
2	Oxide glass structure evolution under swift heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2014, 325, 54-65.	1.4	46
3	A General Mechanism for Gel Layer Formation on Borosilicate Glass under Aqueous Corrosion. Journal of Physical Chemistry C, 2020, 124, 5132-5144.	3.1	43
4	New Microscope and Ion Accelerators for Materials Investigations (MIAMI-2) system at the University of Huddersfield. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 931, 37-43.	1.6	42
5	Self-healing capacity of nuclear glass observed by NMR spectroscopy. Scientific Reports, 2016, 6, 25499.	3.3	38
6	Radiation resistance and mechanical properties of magnetron-sputtered Cr2AlC thin films. Journal of Nuclear Materials, 2019, 526, 151742.	2.7	33
7	Surface and bulk electron irradiation effects in simple and complex glasses. Journal of Non-Crystalline Solids, 2016, 453, 141-149.	3.1	31
8	Understanding and simulating the material behavior during multi-particle irradiations. Scientific Reports, 2016, 6, 30191.	3.3	28
9	Using external ion irradiations for simulating self-irradiation damage in nuclear waste glasses: State of the art, recommendations and, prospects. Journal of Nuclear Materials, 2020, 539, 152246.	2.7	25
10	Electron and electron-ion sequential irradiation of borosilicate glasses: Impact of the pre-existing defects. Journal of Nuclear Materials, 2017, 489, 91-98.	2.7	22
11	New Insights about the Importance of the Alteration Layer/Glass Interface. Journal of Physical Chemistry C, 2020, 124, 10032-10044.	3.1	21
12	Enhanced Radiation Tolerance of Tungsten Nanoparticles to He Ion Irradiation. Nanomaterials, 2018, 8, 1052.	4.1	14
13	Xenon solubility and formation of supercritical xenon precipitates in glasses under non-equilibrium conditions. Scientific Reports, 2018, 8, 15320.	3.3	9
14	Understanding amorphization mechanisms using ion irradiation in situ a TEM and 3D damage reconstruction. Ultramicroscopy, 2019, 207, 112838.	1.9	7
15	An in-situ TEM study into the role of disorder, temperature and ballistic collisions on the accumulation of helium bubbles and voids in glass-ceramic composites. Journal of Nuclear Materials, 2021, 548, 152836.	2.7	7
16	The effect of flux on ion irradiation-enhanced precipitation in AISI-316L: An in-situ TEM study. Journal of Nuclear Materials, 2020, 541, 152414.	2.7	5
17	Effect of density and Z-contrast on the visibility of noble gas precipitates and voids with insights from Monte-Carlo simulations. Micron, 2019, 126, 102712.	2.2	3
18	Ballistic-damage-induced size changes in equilibrium and under-pressurized Xe precipitates in amorphous silica. Journal of Nuclear Materials, 2019, 519, 229-238.	2.7	3

#	ARTICLE	IF	CITATIONS
19	Study on the dissolution of Î²-precipitates in the Zrâ€“1Nb alloy under the influence of Ne ion irradiation. Microscopy (Oxford, England), 2021, 70, 461-468.	1.5	1
20	Direct Comparison of Tungsten Nanoparticles and Foils under Helium Irradiation at High Temperatures Studied via In-Situ Transmission Electron Microscopy. Microscopy and Microanalysis, 2019, 25, 1576-1577.	0.4	0
21	Nanostructuring Germanium Nanowires by In Situ TEM Ion Irradiation. Particle and Particle Systems Characterization, 2021, 38, 2100154.	2.3	0