Marko KarluÅ¡iÄ

List of Publications by Year
in descending order

28 papers	540 citations	623734 14 h-index	642732 23 g-index
28 all docs	28 docs citations	28 times ranked	511 citing authors

#	Article	IF	Citations
1	New capabilities of the Zagreb ion microbeam system. Nuclear Instruments & Methods in Physics Research B, 2007, 260, 114-118.	1.4	88
2	Creating nanoporous graphene with swift heavy ions. Carbon, 2017, 114, 511-518.	10.3	52
3	Energy threshold for the creation of nanodots on SrTiO₃by swift heavy ions. New Journal of Physics, 2010, 12, 043009.	2.9	42
4	Response of GaN to energetic ion irradiation: conditions for ion track formation. Journal Physics D: Applied Physics, 2015, 48, 325304.	2.8	40
5	Nanostructuring graphene by dense electronic excitation. Nanotechnology, 2015, 26, 465302.	2.6	39
6	Thermal spike analysis of highly charged ion tracks. Nuclear Instruments & Methods in Physics Research B, 2012, 280, 103-110.	1.4	25
7	Formation of long-range ordered quantum dots arrays in amorphous matrix by ion beam irradiation. Applied Physics Letters, 2009, 95, 063104.	3.3	24
8	Swift heavy ion track formation in SrTiO₃and TiO₂under random, channeling and near-channeling conditions. Journal Physics D: Applied Physics, 2017, 50, 205302.	2.8	24
9	On the threshold for ion track formation in CaF₂. New Journal of Physics, 2017, 19, 023023.	2.9	19
10	Formation of swift heavy ion tracks on a rutile TiO₂ (001) surface. Journal of Applied Crystallography, 2016, 49, 1704-1712.	4.5	18
11	Generation of an ordered Ge quantum dot array in an amorphous silica matrix by ion beam irradiation: Modeling and structural characterization. Physical Review B, 2010, 81, .	3.2	17
12	Nanopatterning surfaces by grazing incidence swift heavy ion irradiation. Applied Surface Science, 2021, 541, 148467.	6.1	17
13	Design of quantum dot lattices in amorphous matrices by ion beam irradiation. Physical Review B, 2011, 84, .	3.2	16
14	Conditions for formation of germanium quantum dots in amorphous matrices by MeV ions: Comparison with standard thermal annealing. Physical Review B, 2012, 86, .	3.2	15
15	Investigation of Ion Irradiation Effects in Silicon and Graphite Produced by 23 MeV I Beam. Materials, 2021, 14, 1904.	2.9	13
16	Determination of ion track radii in amorphous matrices via formation of nano-clusters by ion-beam irradiation. Applied Physics Letters, 2012, 101, 103112.	3.3	10
17	Shape Deformation in Ion Beam Irradiated Colloidal Monolayers: An AFM Investigation. Nanomaterials, 2020, 10, 453.	4.1	10
18	Single ion hit detection set-up for the Zagreb ion microprobe. Nuclear Instruments & Methods in Physics Research B, 2012, 277, 140-144.	1.4	9

#	Article	IF	Citations
19	Monitoring Ion Track Formation Using In Situ RBS/c, ToF-ERDA, and HR-PIXE. Materials, 2017, 10, 1041.	2.9	9
20	Infrared spectroscopy of ion tracks in amorphous SiO2 and comparison to gamma irradiation induced changes. Journal of Nuclear Materials, 2019, 514, 74-83.	2.7	8
21	High-Energy Heavy Ion Irradiation of Al2O3, MgO and CaF2. Materials, 2022, 15, 2110.	2.9	8
22	Raman mapping of 4â€MeV C and Si channeling implantation of 6Hâ€SiC. Journal of Raman Spectroscopy, 2019, 50, 1186-1196.	2.5	7
23	Modification of semiconductor or metal nanoparticle lattices in amorphous alumina by MeV heavy ions. New Journal of Physics, 2016, 18, 093032.	2.9	6
24	Mechanisms of surface nanostructuring of Al2O3 and MgO by grazing incidence irradiation with swift heavy ions. Surfaces and Interfaces, 2021, 27, 101508.	3.0	6
25	Charge State Effects in Swift-Heavy-Ion-Irradiated Nanomaterials. Crystals, 2022, 12, 865.	2.2	6
26	Energy Retention in Thin Graphite Targets after Energetic Ion Impact. Materials, 2021, 14, 6289.	2.9	5
27	GISAXS analysis of ion beam modified films and surfaces. Computer Physics Communications, 2017, 212, 69-81.	7.5	4
28	Materials modification using ions with energies below 1MeV/u. Nuclear Instruments & Methods in Physics Research B, 2013, 317, 143-148.	1.4	3