

Meftah Ali

List of Publications by Year in descending order

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51
papers

2,605
citations

304743

22
h-index

206112

48
g-index

52
all docs

52
docs citations

52
times ranked

1125
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient thermal processes in heavy ion irradiation of crystalline inorganic insulators. Nuclear Instruments & Methods in Physics Research B, 2000, 166-167, 903-912.	1.4	419
2	Track formation in SiO ₂ quartz and the thermal-spike mechanism. Physical Review B, 1994, 49, 12457-12463.	3.2	343
3	Swift heavy ions in magnetic insulators: A damage-cross-section velocity effect. Physical Review B, 1993, 48, 920-925.	3.2	340
4	Track creation in SiO ₂ and BaFe ₁₂ O ₁₉ by swift heavy ions: a thermal spike description. Nuclear Instruments & Methods in Physics Research B, 1996, 116, 37-42.	1.4	208
5	Experimental determination of track cross-section in Gd ₃ Ga ₅ O ₁₂ and comparison to the inelastic thermal spike model applied to several materials. Nuclear Instruments & Methods in Physics Research B, 2005, 237, 563-574.	1.4	166
6	Nanometric transformation of the matter by short and intense electronic excitation: Experimental data versus inelastic thermal spike model. Nuclear Instruments & Methods in Physics Research B, 2012, 277, 28-39.	1.4	138
7	Swift-uranium-ion-induced damage in sapphire. Physical Review B, 1995, 51, 12194-12201.	3.2	100
8	Dense and nanometric electronic excitations induced by swift heavy ions in an ionic CaF ₂ crystal: Evidence for two thresholds of damage creation. Physical Review B, 2012, 85, .	3.2	67
9	Damage induced in LiNbO ₃ single crystals by GeV gadolinium ions. Nuclear Instruments & Methods in Physics Research B, 1994, 91, 312-316.	1.4	61
10	Behavior of crystalline silicon under huge electronic excitations: A transient thermal spike description. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2719-2724.	1.4	57
11	Annealing effects on the structural, electrical and optical properties of ZnO thin films prepared by thermal evaporation technique. Journal of King Saud University - Science, 2015, 27, 356-360.	3.5	57
12	Spontaneous magnetization induced in the spinel ZnFe ₂ O ₄ by heavy ion irradiation in the electronic stopping power regime. Nuclear Instruments & Methods in Physics Research B, 1993, 82, 91-102.	1.4	55
13	High energy heavy ion irradiation damage in yttrium iron garnet. Nuclear Instruments & Methods in Physics Research B, 1992, 65, 568-575.	1.4	50
14	High energy heavy ion irradiation effects in $\hat{1}\pm$ -Al ₂ O ₃ . Nuclear Instruments & Methods in Physics Research B, 1993, 80-81, 1114-1118.	1.4	46
15	Thermal spike model applied to the irradiated yttrium iron garnet: Mean diffusion length of the energy deposited on the electrons. Nuclear Instruments & Methods in Physics Research B, 1997, 122, 470-475.	1.4	44
16	High-energy irradiation of magnetic insulators by lead ions: appearance of a plateau in the damage efficiency. Nuclear Instruments & Methods in Physics Research B, 1991, 59-60, 605-608.	1.4	37
17	Sputtering of vitreous SiO ₂ and Y ₃ Fe ₅ O ₁₂ in the electronic stopping power region: A thermal spike description. Nuclear Instruments & Methods in Physics Research B, 1998, 146, 431-436.	1.4	33
18	Amorphization of sapphire induced by swift heavy ions: A two step process. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2976-2980.	1.4	31

#	ARTICLE	IF	CITATIONS
19	Color centers in neutron-irradiated Y ₃ Al ₅ O ₁₂ , CaF ₂ and LiF single crystals. Journal of Luminescence, 2007, 127, 696-702.	3.1	28
20	Damage creation threshold of Al ₂ O ₃ under swift heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2012, 286, 247-253.	1.4	25
21	Out-of-plane swelling of gadolinium gallium garnet induced by swift heavy ions. Nuclear Instruments & Methods in Physics Research B, 1998, 146, 426-430.	1.4	24
22	Conductivity modifications of calcium-doped yttrium iron garnet by swift heavy ion irradiations. Radiation Effects and Defects in Solids, 1993, 126, 233-236.	1.2	22
23	Thermal Spike Description of the Damage Creation in Y ₃ Al ₅ O ₁₂ Induced by Swift Heavy Ions. Materials Science Forum, 1997, 248-249, 53-56.	0.3	20
24	Electronic stopping power threshold of damage creation in yttrium iron garnet. Radiation Effects and Defects in Solids, 1993, 126, 251-254.	1.2	18
25	Structural disorder in sapphire induced by 90.3MeV xenon ions. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3195-3198.	1.4	18
26	Electronic stopping power threshold of sputtering in yttrium iron garnet. Nuclear Instruments & Methods in Physics Research B, 1996, 107, 242-245.	1.4	16
27	Swelling of SiO ₂ Quartz Induced by Energetic Heavy Ions. Materials Research Society Symposia Proceedings, 1997, 504, 123.	0.1	16
28	Electronic sputtering of Gd ₃ Ga ₅ O ₁₂ and Y ₃ Fe ₅ O ₁₂ garnets: Yield, stoichiometry and comparison to track formation. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 955-958.	1.4	15
29	Data consistencies of swift heavy ion induced damage creation in yttrium iron garnet analyzed by different techniques. Nuclear Instruments & Methods in Physics Research B, 2016, 366, 155-160.	1.4	15
30	Melting of Au and Al in nanometer Fe/Au and Fe/Al multilayers under swift heavy ions: A thermal spike study. Nuclear Instruments & Methods in Physics Research B, 2006, 245, 150-156.	1.4	14
31	Damage and conductivity of yttrium iron garnet irradiated with GeV-heavy ions. Nuclear Instruments & Methods in Physics Research B, 1994, 91, 288-293.	1.4	13
32	XRD and AFM study of radiation damage induced by swift heavy ions in Y ₃ Al ₅ O ₁₂ single crystals. Radiation Effects and Defects in Solids, 2011, 166, 513-521.	1.2	11
33	Radiation damage induced by swift heavy ions and reactor neutrons in Y ₃ Al ₅ O ₁₂ single crystals. Nuclear Instruments & Methods in Physics Research B, 2007, 258, 395-402.	1.4	10
34	Defects creation in sapphire by swift heavy ions: A fluence depending process. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 957-959.	1.4	10
35	Damage of M-type baryum hexaferrites induced by GeV-heavy ion irradiations. Nuclear Instruments & Methods in Physics Research B, 1995, 106, 567-572.	1.4	9
36	Europium diffusion enhancement in lithium niobate by GeV gadolinium ion irradiations. Journal of Applied Physics, 1995, 77, 2952-2956.	2.5	9

#	ARTICLE	IF	CITATIONS
37	Latent track formation in LiNbO ₃ single crystals irradiated by GeV uranium ions. Radiation Effects and Defects in Solids, 1995, 136, 307-310.	1.2	9
38	Li colloids formation study induced by reactor neutrons in LiF single crystals. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 2745-2749.	1.4	9
39	Thermal annealing study of F center clusters in LiF single crystals. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 613, 9-14.	1.6	8
40	Mössbauer study of sapphire irradiated with high energy heavy ions. Nuclear Instruments & Methods in Physics Research B, 1994, 91, 274-279.	1.4	6
41	Colour centres formation in CaF ₂ single crystals by γ -rays and reactor neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 621, 68-70.	1.6	6
42	Reply to "Comment on "Dense and nanometric electronic excitations induced by swift heavy ions in an ionic CaF ₂ crystal: Evidence for two thresholds of damage creation". Physical Review B, 2013, 87, .	3.2	5
43	Defect creation in Ge and GaAs semiconductor crystals by huge electronic excitations: A thermal spike description. Canadian Journal of Physics, 2014, 92, 1632-1637.	1.1	4
44	Color centers induced in Y ₃ Al ₅ O ₁₂ single crystals by swift heavy ions and reactor neutrons. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 266-271.	1.4	3
45	Thermoluminescence study of Al ₂ O ₃ and Y ₃ Al ₅ O ₁₂ single crystals irradiated with reactor neutrons. Nuclear Instruments & Methods in Physics Research B, 2014, 326, 90-94.	1.4	3
46	Mechanical properties of swift heavy ion irradiated Y ₃ Al ₅ O ₁₂ single crystal. Nuclear Instruments & Methods in Physics Research B, 2018, 435, 137-141.	1.4	3
47	Accumulation of color centers in lithium fluoride crystals under irradiation with swift lead projectiles. Nuclear Instruments & Methods in Physics Research B, 2015, 359, 57-59.	1.4	2
48	NUR reflectometer for neutron optics device investigations. Physica B: Condensed Matter, 2005, 364, 29-32.	2.7	1
49	Short-time reactor neutron irradiation of YSZ prepared using reactive calcination method. Radiation Effects and Defects in Solids, 2006, 161, 297-303.	1.2	1
50	Europium diffusion in y- and z-cut linbo ₃ pre-irradiated by gev uranium ions. Radiation Effects and Defects in Solids, 1995, 136, 279-282.	1.2	0
51	Damage of M-type baryum hexaferrites induced by GeV-heavy ion irradiations. , 1996, , 567-572.		0