Farida A Selim

List of Publications by Year
in descending order

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Version: 2024-02-01

67	1,810	236925	276875
papers	citations	25 h-index	41 g-index

67	67	67	1880
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nature of Native Defects in ZnO. Physical Review Letters, 2007, 99, 085502.	7.8	326
2	Persistent Photoconductivity in Strontium Titanate. Physical Review Letters, 2013, 111, 187403.	7.8	130
3	Protected-annealing regulated defects to improve optical properties and luminescence performance of Ce:YAG transparent ceramics for white LEDs. Journal of Materials Chemistry C, 2019, 7, 4057-4065.	5.5	76
4	Chemical manipulation of hydrogen induced high p-type and n-type conductivity in Ga2O3. Scientific Reports, 2020, 10, 6134.	3.3	65
5	Efficient spectral regulation in Ce:Lu3(Al,Cr)5O12 and Ce:Lu3(Al,Cr)5O12/Ce:Y3Al5O12 transparent ceramics with high color rendering index for high-power white LEDs/LDs. Journal of Advanced Ceramics, 2021, 10, 1107-1118.	17.4	65
6	Enhanced light extraction of single-surface textured YAG:Ce transparent ceramics for high power white LEDs. Applied Surface Science, 2018, 455, 425-432.	6.1	54
7	High recorded color rendering index in single Ce,(Pr,Mn):YAG transparent ceramics for high-power white LEDs/LDs. Journal of Materials Chemistry C, 2020, 8, 4329-4337.	5.5	50
8	ZnO Luminescence and scintillation studied via photoexcitation, X-ray excitation and gamma-induced positron spectroscopy. Scientific Reports, 2016, 6, 31238.	3.3	45
9	Weak thermal quenching and tunable luminescence in Ce:Y3(Al,Sc)5O12 transparent ceramics for high power white LEDs/LDs. Chemical Engineering Journal, 2020, 398, 125486.	12.7	44
10	Single CaO accelerated densification and microstructure control of highly transparent <scp>YAG</scp> ceramic. Journal of the American Ceramic Society, 2018, 101, 703-712.	3.8	43
11	Luminescence declining behaviors in YAG:Ce transparent ceramics for high power laser lighting. Journal of Materials Chemistry C, 2019, 7, 14357-14365.	5.5	43
12	Positron lifetime measurements of hydrogen passivation of cation vacancies in yttrium aluminum oxide garnets. Physical Review B, 2013, 88, .	3.2	42
13	High sinterability nano-Y2O3 powders prepared via decomposition of hydroxyl-carbonate precursors for transparent ceramics. Journal of Materials Science, 2017, 52, 8556-8567.	3.7	39
14	Study of trap levels in Î²-Ga2O3 by thermoluminescence spectroscopy. Journal of Applied Physics, 2019, 125, .	2.5	39
15	Thermal Energy Transport in Oxide Nuclear Fuel. Chemical Reviews, 2022, 122, 3711-3762.	47.7	37
16	Strong visible and near infrared luminescence in undoped YAG single crystals. AIP Advances, 2011, 1, .	1.3	36
17	The impact of microwaveâ€assisted thermal sterilization on the morphology, free volume, and gas barrier properties of multilayer polymeric films. Journal of Applied Polymer Science, 2014, 131, .	2.6	35
18	Energy levels of exciton traps in yttrium aluminum garnet single crystals. Journal of Applied Physics, 2012, 111, 063505.	2.5	34

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19	Physical and optical properties of Ce:YAG nanophosphors and transparent ceramics and observation of novel luminescence phenomenon. Optical Materials Express, 2017, 7, 1055.	3.0	34
20	A new mechanism for void-cascade interaction from nondestructive depth-resolved atomic-scale measurements of ion irradiationâ€“induced defects in Fe. Science Advances, 2020, 6, eaba8437.	10.3	32
21	Defects and solarization in YAG transparent ceramics. Photonics Research, 2019, 7, 549.	7.0	32
22	Synthesis and characterization of Ce:YAG nano-phosphors and ceramics. Optical Materials Express, 2016, 6, 3704.	3.0	30
23	Interaction of positronium with dissolved oxygen in liquids. Physical Chemistry Chemical Physics, 2020, 22, 5123-5131.	2.8	29
24	Donor characterization in ZnO by thermally stimulated luminescence. Applied Physics Letters, 2014, 105, 041102.	3.3	28
25	Induced conductivity in sol-gel ZnO films by passivation or elimination of Zn vacancies. AIP Advances, 2016, 6, .	1.3	28
26	Study of exciton dynamics in garnets by low temperature thermo-luminescence. Journal of Applied Physics, 2012, 112, 023522.	2.5	27
27	Cu-doping of ZnO by nuclear transmutation. Applied Physics Letters, 2011, 99, .	3.3	26
28	Development of accelerator-based Î³-ray-induced positron annihilation spectroscopy technique. Journal of Applied Physics, 2005, 97, 113539.	2.5	23
29	High quantum efficiency Ce:(Lu,Y)₃(Al,Sc)₂Al₃O₁₂ transparent ceramics with excellent thermal stability for high-power white LEDs/LDs. Journal of Materials Chemistry C, 2020, 8, 16427-16435.	5.5	23
30	Annealing induced discoloration of transparent YAG ceramics using divalent additives in solid-state reaction sintering. Journal of the European Ceramic Society, 2017, 37, 4123-4128.	5.7	20
31	Hydrogen in insulating oxide Y₃Al₅O₁₂ strongly narrows the band gap. Applied Physics Letters, 2014, 105, 221110.	3.3	19
32	Taguchi method-assisted optimization of multiple effects on the optical and luminescence performance of Ce:YAG transparent ceramics for high power white LEDs. Journal of Materials Chemistry C, 2019, 7, 11431-11440.	5.5	18
33	Broadband emission Gd₃Sc₂Al₃O₁₂:Ce³⁺ transparent ceramics with a high color rendering index for high-power white LEDs/LDs. Optics Express, 2021, 29, 9474.	3.4	17
34	X-ray luminescence based spectrometer for investigation of scintillation properties. Review of Scientific Instruments, 2012, 83, 103112.	1.3	16
35	PVB modified spherical granules of Î²-TCP by spray drying for 3D ceramic printing. Journal of Alloys and Compounds, 2017, 721, 312-319.	5.5	16
36	Direct measurement of the density and energy level of compensating acceptors and their impact on the conductivity of n-type Ga2O3 films. Journal of Applied Physics, 2020, 127, .	2.5	15

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37	Dual effect synergistically triggered Ce:(Y,Tb)3(Al,Mn)5O12 transparent ceramics enabling a high color-rendering index and excellent thermal stability for white LEDs. Journal of the European Ceramic Society, 2021, 41, 2834-2846.	5.7	14
38	One-order-higher Cr⁴⁺ conversion efficiency in Cr⁴⁺:YAG transparent ceramics for a high-frequency passively Q-switched laser. Photonics Research, 2019, 7, 933.	7.0	14
39	Positron Lifetime Measurements of Vacancy Defects in Complex Oxides. Acta Physica Polonica A, 2014, 125, 764-766.	0.5	13
40	Photoconductive ZnO Films Printed on Flexible Substrates by Inkjet and Aerosol Jet Techniques. Journal of Electronic Materials, 2018, 47, 949-954.	2.2	13
41	Photoconductivity of bulk SrTiO₃single crystals at room temperature. Materials Research Express, 2018, 5, 016202.	1.6	12
42	Point and extended defects in heteroepitaxial Î²â^'Ga2O3 films. Physical Review Materials, 2020, 4, .	2.4	12
43	Localized UV emitters on the surface of Î²-Ga2O3. Scientific Reports, 2020, 10, 21022.	3.3	11
44	Study of Trapping Phenomena in SrTiO3 by Thermally Stimulated Techniques. Journal of Electronic Materials, 2018, 47, 604-611.	2.2	9
45	Fabrication, optical and luminescence properties of low pressure injection molded YAG:Ce tubular ceramics for outdoor lighting. Journal of the European Ceramic Society, 2021, 41, 1564-1571.	5.7	9
46	Effects of Substrate and Post-Growth Treatments on the Microstructure and Properties of ZnO Thin Films Prepared by Atomic Layer Deposition. Journal of Electronic Materials, 2016, 45, 6337-6345.	2.2	8
47	High dispersibility of Î±-Al2O3 powders from coprecipitation method by step-by-step horizontal ball-milling. Journal of Materials Science: Materials in Electronics, 2017, 28, 16254-16261.	2.2	7
48	Tuning the Phase and Microstructural Properties of TiO2 Films Through Pulsed Laser Deposition and Exploring Their Role as Buffer Layers for Conductive Films. Journal of Electronic Materials, 2018, 47, 2271-2276.	2.2	7
49	Bremsstrahlung Based Positron Annihilation Spectroscopy for Material Defect Analysis. AIP Conference Proceedings, 2003, , .	0.4	6
50	Optical and Electrical Properties of Sn-Doped Zinc Oxide Single Crystals. Journal of Electronic Materials, 2018, 47, 1497-1504.	2.2	6
51	Light-driven permanent transition from insulator to conductor. Physical Review B, 2021, 104, .	3.2	6
52	Positron annihilation in transparent ceramics. Journal of Physics: Conference Series, 2016, 674, 012013.	0.4	5
53	Gamma Induced Positron Annihilation: History, Current, and Future Developments. Acta Physica Polonica A, 2017, 132, 1450-1456.	0.5	4
54	The mechanism behind the high radiation tolerance of Feâ€“Cr alloys. Journal of Applied Physics, 2022, 131, .	2.5	4

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55	Fourier Transform Infrared Spectroscopy Measurements of Multi-phonon and Free-Carrier Absorption in ZnO. Journal of Electronic Materials, 2016, 45, 6329-6336.	2.2	3
56	Observation of Negative Magnetic Hysteresis Loop in ZnO Thin Films. Journal of Spectroscopy, 2018, 2018, 1-6.	1.3	2
57	Neutron irradiation induced defects in oxides and their impact on the oxide properties. Journal of Applied Physics, 2021, 129, 215901.	2.5	2
58	Microstructural dependence of defect formation in iron-oxide thin films. Applied Surface Science, 2022, 589, 152844.	6.1	2
59	Scintillation of Un-doped ZnO Single Crystals. MRS Advances, 2016, 1, 121-126.	0.9	1
60	Depth Resolved Measurements of Atomic Scale Defects in Ion Irradiated Fe Alloys. Microscopy and Microanalysis, 2019, 25, 1546-1547.	0.4	1
61	Positron and positronium in Al2O3 nanopowders. AIP Conference Proceedings, 2019, , .	0.4	1
62	Measurement and Simulation of Vacancy Formation in 2-MeV Self-irradiated Pure Fe. Jom, 2020, 72, 2436-2444.	1.9	1
63	New thermally stimulated emission spectrometer for the detection of ultra-shallow low-density traps. Journal of Applied Physics, 2021, 130, .	2.5	1
64	Synthesis of Conductive Sol-Gel ZnO Films and Development of ZnO Printed Electronics. , 0, , .		0
65	A model for joint processing of LT and CDB spectra of dielectric nano-sized powders. AIP Conference Proceedings, 2019, , .	0.4	0
66	Defect Characterization Using Positron Annihilation Spectroscopy on Laser-Ablated Surfaces. Jom, 2021, 73, 4221.	1.9	0
67	Development of a pulsed, variable-energy positron beam for atomic scale defect studies. Review of Scientific Instruments, 2022, 93, 043903.	1.3	0