

# Farida A Selim

## List of Publications by Year in descending order

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67  
papers

1,810  
citations

236925

25  
h-index

276875

41  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1880  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Energy Transport in Oxide Nuclear Fuel. <i>Chemical Reviews</i> , 2022, 122, 3711-3762.	47.7	37
2	The mechanism behind the high radiation tolerance of Fe <sup>2+</sup> /Cr alloys. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	4
3	Microstructural dependence of defect formation in iron-oxide thin films. <i>Applied Surface Science</i> , 2022, 589, 152844.	6.1	2
4	Development of a pulsed, variable-energy positron beam for atomic scale defect studies. <i>Review of Scientific Instruments</i> , 2022, 93, 043903.	1.3	0
5	Dual effect synergistically triggered Ce:(Y,Tb) <sub>3</sub> (Al,Mn) <sub>5</sub> O <sub>12</sub> transparent ceramics enabling a high color-rendering index and excellent thermal stability for white LEDs. <i>Journal of the European Ceramic Society</i> , 2021, 41, 2834-2846.	5.7	14
6	Fabrication, optical and luminescence properties of low pressure injection molded YAG:Ce tubular ceramics for outdoor lighting. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1564-1571.	5.7	9
7	Broadband emission Gd <sub>3</sub> Sc <sub>2</sub> Al <sub>3</sub> O <sub>12</sub> :Ce <sup>3+</sup> transparent ceramics with a high color rendering index for high-power white LEDs/LDs. <i>Optics Express</i> , 2021, 29, 9474.	3.4	17
8	Neutron irradiation induced defects in oxides and their impact on the oxide properties. <i>Journal of Applied Physics</i> , 2021, 129, 215901.	2.5	2
9	New thermally stimulated emission spectrometer for the detection of ultra-shallow low-density traps. <i>Journal of Applied Physics</i> , 2021, 130, .	2.5	1
10	Efficient spectral regulation in Ce:Lu <sub>3</sub> (Al,Cr) <sub>5</sub> O <sub>12</sub> and Ce:Lu <sub>3</sub> (Al,Cr) <sub>5</sub> O <sub>12</sub> /Ce:Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> transparent ceramics with high color rendering index for high-power white LEDs/LDs. <i>Journal of Advanced Ceramics</i> , 2021, 10, 1107-1118.	17.4	65
11	Defect Characterization Using Positron Annihilation Spectroscopy on Laser-Ablated Surfaces. <i>Jom</i> , 2021, 73, 4221.	1.9	0
12	Light-driven permanent transition from insulator to conductor. <i>Physical Review B</i> , 2021, 104, .	3.2	6
13	High quantum efficiency Ce:(Lu,Y) <sub>3</sub> (Al,Sc) <sub>2</sub> Al <sub>3</sub> O <sub>12</sub> transparent ceramics with excellent thermal stability for high-power white LEDs/LDs. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16427-16435.	5.5	23
14	A new mechanism for void-cascade interaction from nondestructive depth-resolved atomic-scale measurements of ion irradiation <sup>+</sup> induced defects in Fe. <i>Science Advances</i> , 2020, 6, eaba8437.	10.3	32
15	Localized UV emitters on the surface of <sup>125</sup> I-Ga <sub>2</sub> O <sub>3</sub> . <i>Scientific Reports</i> , 2020, 10, 21022.	3.3	11
16	Measurement and Simulation of Vacancy Formation in 2-MeV Self-irradiated Pure Fe. <i>Jom</i> , 2020, 72, 2436-2444.	1.9	1
17	High recorded color rendering index in single Ce,(Pr,Mn):YAG transparent ceramics for high-power white LEDs/LDs. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4329-4337.	5.5	50
18	Chemical manipulation of hydrogen induced high p-type and n-type conductivity in Ga <sub>2</sub> O <sub>3</sub> . <i>Scientific Reports</i> , 2020, 10, 6134.	3.3	65

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19	Direct measurement of the density and energy level of compensating acceptors and their impact on the conductivity of n-type Ga <sub>2</sub> O <sub>3</sub> films. <i>Journal of Applied Physics</i> , 2020, 127, .	2.5	15
20	Weak thermal quenching and tunable luminescence in Ce:Y <sub>3</sub> (Al,Sc)5O <sub>12</sub> transparent ceramics for high power white LEDs/LDs. <i>Chemical Engineering Journal</i> , 2020, 398, 125486.	12.7	44
21	Interaction of positronium with dissolved oxygen in liquids. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5123-5131.	2.8	29
22	Point and extended defects in heteroepitaxial $\hat{I}^2\hat{a}^{\sim}$ Ga <sub>2</sub> O <sub>3</sub> films. <i>Physical Review Materials</i> , 2020, 4, .	2.4	12
23	Depth Resolved Measurements of Atomic Scale Defects in Ion Irradiated Fe Alloys. <i>Microscopy and Microanalysis</i> , 2019, 25, 1546-1547.	0.4	1
24	Taguchi method-assisted optimization of multiple effects on the optical and luminescence performance of Ce:YAG transparent ceramics for high power white LEDs. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11431-11440.	5.5	18
25	Protected-annealing regulated defects to improve optical properties and luminescence performance of Ce:YAG transparent ceramics for white LEDs. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4057-4065.	5.5	76
26	Positron and positronium in Al <sub>2</sub> O <sub>3</sub> nanopowders. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1
27	Luminescence declining behaviors in YAG:Ce transparent ceramics for high power laser lighting. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14357-14365.	5.5	43
28	A model for joint processing of LT and CDB spectra of dielectric nano-sized powders. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
29	Study of trap levels in $\hat{I}^2$ -Ga <sub>2</sub> O <sub>3</sub> by thermoluminescence spectroscopy. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	39
30	Defects and solarization in YAG transparent ceramics. <i>Photonics Research</i> , 2019, 7, 549.	7.0	32
31	One-order-higher Cr <sup>4+</sup> conversion efficiency in Cr <sup>4+</sup> :YAG transparent ceramics for a high-frequency passively Q-switched laser. <i>Photonics Research</i> , 2019, 7, 933.	7.0	14
32	Photoconductivity of bulk SrTiO <sub>3</sub> single crystals at room temperature. <i>Materials Research Express</i> , 2018, 5, 016202.	1.6	12
33	Study of Trapping Phenomena in SrTiO <sub>3</sub> by Thermally Stimulated Techniques. <i>Journal of Electronic Materials</i> , 2018, 47, 604-611.	2.2	9
34	Tuning the Phase and Microstructural Properties of TiO <sub>2</sub> Films Through Pulsed Laser Deposition and Exploring Their Role as Buffer Layers for Conductive Films. <i>Journal of Electronic Materials</i> , 2018, 47, 2271-2276.	2.2	7
35	Single CaO accelerated densification and microstructure control of highly transparent $\langle\text{scp}\rangle$ YAG ceramic. <i>Journal of the American Ceramic Society</i> , 2018, 101, 703-712.	3.8	43
36	Photoconductive ZnO Films Printed on Flexible Substrates by Inkjet and Aerosol Jet Techniques. <i>Journal of Electronic Materials</i> , 2018, 47, 949-954.	2.2	13

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37	Optical and Electrical Properties of Sn-Doped Zinc Oxide Single Crystals. <i>Journal of Electronic Materials</i> , 2018, 47, 1497-1504.	2.2	6
38	Enhanced light extraction of single-surface textured YAG:Ce transparent ceramics for high power white LEDs. <i>Applied Surface Science</i> , 2018, 455, 425-432.	6.1	54
39	Observation of Negative Magnetic Hysteresis Loop in ZnO Thin Films. <i>Journal of Spectroscopy</i> , 2018, 2018, 1-6.	1.3	2
40	Annealing induced discoloration of transparent YAG ceramics using divalent additives in solid-state reaction sintering. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4123-4128.	5.7	20
41	High sinterability nano-Y <sub>2</sub> O <sub>3</sub> powders prepared via decomposition of hydroxyl-carbonate precursors for transparent ceramics. <i>Journal of Materials Science</i> , 2017, 52, 8556-8567.	3.7	39
42	High dispersibility of $\hat{\Gamma}$ -Al <sub>2</sub> O <sub>3</sub> powders from coprecipitation method by step-by-step horizontal ball-milling. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 16254-16261.	2.2	7
43	Physical and optical properties of Ce:YAG nanophosphors and transparent ceramics and observation of novel luminescence phenomenon. <i>Optical Materials Express</i> , 2017, 7, 1055.	3.0	34
44	PVB modified spherical granules of $\hat{\Gamma}$ -TCP by spray drying for 3D ceramic printing. <i>Journal of Alloys and Compounds</i> , 2017, 721, 312-319.	5.5	16
45	Gamma Induced Positron Annihilation: History, Current, and Future Developments. <i>Acta Physica Polonica A</i> , 2017, 132, 1450-1456.	0.5	4
46	Synthesis and characterization of Ce:YAG nano-phosphors and ceramics. <i>Optical Materials Express</i> , 2016, 6, 3704.	3.0	30
47	Induced conductivity in sol-gel ZnO films by passivation or elimination of Zn vacancies. <i>AIP Advances</i> , 2016, 6, .	1.3	28
48	Positron annihilation in transparent ceramics. <i>Journal of Physics: Conference Series</i> , 2016, 674, 012013.	0.4	5
49	Scintillation of Un-doped ZnO Single Crystals. <i>MRS Advances</i> , 2016, 1, 121-126.	0.9	1
50	Effects of Substrate and Post-Growth Treatments on the Microstructure and Properties of ZnO Thin Films Prepared by Atomic Layer Deposition. <i>Journal of Electronic Materials</i> , 2016, 45, 6337-6345.	2.2	8
51	Fourier Transform Infrared Spectroscopy Measurements of Multi-phonon and Free-Carrier Absorption in ZnO. <i>Journal of Electronic Materials</i> , 2016, 45, 6329-6336.	2.2	3
52	ZnO Luminescence and scintillation studied via photoexcitation, X-ray excitation and gamma-induced positron spectroscopy. <i>Scientific Reports</i> , 2016, 6, 31238.	3.3	45
53	The impact of microwave-assisted thermal sterilization on the morphology, free volume, and gas barrier properties of multilayer polymeric films. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	35
54	Positron Lifetime Measurements of Vacancy Defects in Complex Oxides. <i>Acta Physica Polonica A</i> , 2014, 125, 764-766.	0.5	13

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55	Hydrogen in insulating oxide $Y_3Al_5O_{12}$ strongly narrows the band gap. Applied Physics Letters, 2014, 105, 221110.	3.3	19
56	Donor characterization in ZnO by thermally stimulated luminescence. Applied Physics Letters, 2014, 105, 041102.	3.3	28
57	Persistent Photoconductivity in Strontium Titanate. Physical Review Letters, 2013, 111, 187403.	7.8	130
58	Positron lifetime measurements of hydrogen passivation of cation vacancies in yttrium aluminum oxide garnets. Physical Review B, 2013, 88, .	3.2	42
59	Study of exciton dynamics in garnets by low temperature thermo-luminescence. Journal of Applied Physics, 2012, 112, 023522.	2.5	27
60	X-ray luminescence based spectrometer for investigation of scintillation properties. Review of Scientific Instruments, 2012, 83, 103112.	1.3	16
61	Energy levels of exciton traps in yttrium aluminum garnet single crystals. Journal of Applied Physics, 2012, 111, 063505.	2.5	34
62	Strong visible and near infrared luminescence in undoped YAG single crystals. AIP Advances, 2011, 1, .	1.3	36
63	Cu-doping of ZnO by nuclear transmutation. Applied Physics Letters, 2011, 99, .	3.3	26
64	Nature of Native Defects in ZnO. Physical Review Letters, 2007, 99, 085502.	7.8	326
65	Development of accelerator-based $\hat{\gamma}$ -ray-induced positron annihilation spectroscopy technique. Journal of Applied Physics, 2005, 97, 113539.	2.5	23
66	Bremsstrahlung Based Positron Annihilation Spectroscopy for Material Defect Analysis. AIP Conference Proceedings, 2003, , .	0.4	6
67	Synthesis of Conductive Sol-Gel ZnO Films and Development of ZnO Printed Electronics. , 0, , .		0