

Jacqueline A Johnson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114
papers

1,903
citations

22
h-index

39
g-index

114
ext. papers

2,058
ext. citations

3.3
avg, IF

4.43
L-index

#	Paper	IF	Citations
114	Thermal decomposition kinetic study of Fe ₅ C ₂ nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 161, 110436	3.9	
113	Antimony-modified soda-lime-silica glass: Towards low-cost radiation-resistant materials. <i>Journal of Non-Crystalline Solids</i> , 2022 , 585, 121526	3.9	0
112	Pulsed laser deposition and structural evolution of BaF ₂ nanolayers in Eu-doped BaF ₂ /Al ₂ O ₃ layered optical nanocomposite thin films. <i>Thin Solid Films</i> , 2022 , 139298	2.2	
111	Optical properties of differing nanolayered structures of divalent europium doped barium fluoride thin films synthesized by pulsed laser deposition. <i>Optical Materials</i> , 2021 , 122, 111796	3.3	
110	Magnetic properties of the MRI enhancement agent Feridex from Mössbauer spectra. <i>Hyperfine Interactions</i> , 2021 , 242, 1	0.8	0
109	Europium-doped barium chloride storage phosphor plate synthesized by pulsed laser deposition. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4568-4576	3.8	
108	Magnetic Particle Imaging: Current and Future Applications, Magnetic Nanoparticle Synthesis Methods and Safety Measures. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	10
107	The effect of annealing on optical transmittance and structure of ZLANI fluorozirconate glass thin films. <i>Micron</i> , 2021 , 140, 102977	2.3	0
106	Mössbauer spectroscopy of superparamagnetic Fe ₃ O ₄ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 539, 168382	2.8	3
105	Composition-structure-property effects of antimony in soda-lime-silica glasses. <i>Journal of Non-Crystalline Solids</i> , 2020 , 544, 120184	3.9	6
104	Scintillating glass-ceramic substrates for indirect flat panel detectors in digital radiography. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 6893-6900	3.8	0
103	The Correlation of Optical Transmittance with Structural Evolution in Fluorozirconate Glass (ZLANI) Thin Films as a Function of Thermal Annealing. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2070-2071	0.5	1
102	Scintillator Glasses. <i>Springer Handbooks</i> , 2019 , 1555-1584	1.3	2
101	The effect of trivalent iron on the properties of fluorochlorozirconate glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 2018 , 484, 8-13	3.9	3
100	Pulsed laser deposition of transparent fluoride glass. <i>Journal of Non-Crystalline Solids</i> , 2018 , 488, 19-23	3.9	3
99	Magnetism and Mössbauer study of formation of multi-core Fe ₂ O ₃ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 451, 131-136	2.8	8
98	Characterization of Luminescent Materials with Eu Mössbauer Spectroscopy. <i>Materials</i> , 2018 , 11,	3.5	6

97	Local structural variation with oxygen fugacity in Fe ₂ SiO ₄ + fayalitic iron silicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 203, 15-36	5.5	21
96	The effects of sodium fluoride content on the properties of fluorochlorozirconate glass-ceramic storage phosphors. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1551-1560	3.8	5
95	Iron K-edge X-ray absorption near-edge structure spectroscopy of aerodynamically levitated silicate melts and glasses. <i>Chemical Geology</i> , 2017 , 453, 169-185	4.2	31
94	Concentration-dependent luminescence and energy transfer in Tb ³⁺ /Eu ³⁺ -doped borate and fluorozirconate glasses. <i>Journal of Luminescence</i> , 2017 , 187, 298-303	3.8	19
93	Oxygen Insertion Reactions within the One-Dimensional Channels of Phases Related to FeSbO. <i>Inorganic Chemistry</i> , 2017 , 56, 594-607	5.1	10
92	Topotactic Fluorine Insertion into the Channels of FeSbO-Related Materials. <i>Inorganic Chemistry</i> , 2017 , 56, 10078-10089	5.1	8
91	Chapter 3 Glass/Ceramic Scintillator 2017 , 79-106		
90	The magnetic and crystal structures of Sr _{1-x} BeO _{2-x} F _x , a new oxyfluoride. <i>Chemical Communications</i> , 2016 , 52, 2386-9	5.8	3
89	Structural and Kinetic Analysis of BaCl ₂ Nanocrystals in Fluorochlorozirconate Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1099-1104	3.8	9
88	A Zinc Oxide Carbon Nanotube Based Sensor for In Situ Monitoring of Hydrogen Peroxide in Swimming Pools. <i>Electroanalysis</i> , 2015 , 27, 2552-2558	3	16
87	Evaluation of a Fluorochlorozirconate Glass-Ceramic Storage Phosphor Plate for Gamma-Ray Computed Radiography. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2541-2547	3.8	9
86	Temperature-dependent luminescence of Tb ³⁺ and Eu ³⁺ single-doped glasses for LED applications. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015 , 12, 1359-1364		6
85	Down-Conversion in Rare-Earth Doped Glasses and Glass Ceramics 2015 , 255-282		
84	Up-conversion Materials for Enhanced Efficiency of Solar Cells 2015 , 231-254		0
83	Opportunities for Fluorochlorozirconate and Other Glass-Ceramic Detectors in Medical Imaging Devices 2015 , 2,		1
82	The reaction mechanism of FeSb(2) as anode for sodium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 9538-45	3.6	61
81	Mössbauer spectra and superparamagnetism of europium sulfide nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 075001	3	5
80	Probing the Mechanism of Sodium Ion Insertion into Copper Antimony Cu ₂ Sb Anodes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7856-7864	3.8	61

79	Mössbauer spectroscopy of europium-containing glasses: Optical activator study for x-ray image plates. <i>Hyperfine Interactions</i> , 2014 , 226, 797-801	0.8	1
78	The reaction mechanism of SnSb and Sb thin film anodes for Na-ion batteries studied by X-ray diffraction, ¹¹⁹ Sn and ¹²¹ Sb Mössbauer spectroscopies. <i>Journal of Power Sources</i> , 2014 , 267, 329-336	8.9	99
77	Magnetic resonance-guided laser induced thermal therapy for glioblastoma multiforme: a review. <i>BioMed Research International</i> , 2014 , 2014, 761312	3	72
76	Line Narrowing in Mössbauer Spectra of Superparamagnetic Fe ₃ O ₄ Nanoparticles. <i>Journal of Physics: Conference Series</i> , 2014 , 548, 012021	0.3	1
75	Crystallization studies on rare-earth co-doped fluorozirconate-based glasses. <i>Journal of Non-Crystalline Solids</i> , 2013 , 371-372, 33-36	3.9	9
74	Nanocrystallization in Fluorochlorozirconate Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3617-3621	3.8	13
73	Optical diagnostic and therapy applications of femtosecond laser radiation using lens-axicon focusing. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 374-7	0.9	
72	Rare earth doped downshifting glass ceramics for photovoltaic applications. <i>Journal of Non-Crystalline Solids</i> , 2013 , 366, 1-5	3.9	15
71	Mössbauer spectroscopy of europium-doped fluorochlorozirconate glasses and glass ceramics: optimization of storage phosphors in computed radiography. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 205402	1.8	4
70	Fifty years of Mössbauer spectroscopy: from alloys and oxides to glasses and nanoparticles. <i>Hyperfine Interactions</i> , 2012 , 204, 47-55	0.8	1
69	Protective coatings for enhanced performance in biomedical applications. <i>Surface Engineering</i> , 2012 , 28, 473-479	2.6	3
68	Antifog coating for bronchoscope lens. <i>Surface Engineering</i> , 2012 , 28, 468-472	2.6	12
67	Crystallization behavior of rare-earth doped fluorochlorozirconate glasses. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 2450-2452	3.9	9
66	Time-resolved investigations of erbium ions in ZBLAN-based glasses and glass ceramics. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 2649-2652		6
65	Influence of rare-earth ions on SiO ₂ -Na ₂ O-RE ₂ O ₃ glass structure. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 065404	1.8	14
64	The oxidation state of europium in halide glasses. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 495402	1.8	9
63	Structural properties of fluorozirconate-based glass ceramics doped with multivalent europium. <i>Journal of Applied Physics</i> , 2011 , 110, 113527-1135275	2.5	7
62	Advances in up- and down-converted fluorescence for high efficiency solar cells using rare-earth doped fluorozirconate-based glasses and glass ceramics 2010 ,		5

61	XANES studies on Eu-doped fluorozirconate based glass ceramics. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1262, 7956536		
60	Saturation effects in the upconversion efficiency of Er-doped fluorozirconate glasses. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 155107	1.8	14
59	Scanning translucent glass-ceramic x-ray storage phosphors. <i>Proceedings of SPIE</i> , 2010 , 7622, 76223W	1.7	3
58	Differential scanning calorimetry investigations on Eu-doped fluorozirconate-based glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 3085-3089	3.9	10
57	Progress on up- and down-converted fluorescence in rare-doped fluorozirconate-based glass ceramics for high efficiency solar cells 2010 ,		3
56	Multi-functionality of fluorescent nanocrystals in glass ceramics. <i>Radiation Measurements</i> , 2010 , 45, 485-489	4.9	21
55	In situ TEM studies of tribo-induced bonding modifications in near-frictionless carbon films. <i>Carbon</i> , 2010 , 48, 587-591	10.4	68
54	Eu oxidation state in fluorozirconate-based glass ceramics. <i>Journal of Applied Physics</i> , 2009 , 106, 113501	2.5	17
53	A neutron diffraction study of nano-crystalline graphite oxide. <i>Carbon</i> , 2009 , 47, 2239-2243	10.4	26
52	Erbium- and chlorine-doped fluorozirconate-based glasses for up-converted fluorescence. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 1916-1918	3.9	7
51	Crystallization in heat-treated fluorochlorozirconate glasses. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 3751031-3751036	1.8	10
50	Structural and optical investigations of Nd-doped fluorozirconate-based glass ceramics for enhanced upconverted fluorescence. <i>Applied Physics Letters</i> , 2008 , 92, 061905	3.4	36
49	Carbon-hydrogen bonding in near-frictionless carbon. <i>Applied Physics Letters</i> , 2008 , 93, 131911	3.4	5
48	Paramagnetic hyperfine splitting in the Eu Mössbauer spectra of CaF(2):Eu. <i>Physical Review B</i> , 2008 , 77, 2244421-2244428	3.3	3
47	Enhanced up-converted fluorescence in fluorozirconate based glass ceramics for high efficiency solar cells 2008 ,		6
46	Top-surface characterization of a near frictionless carbon film. <i>Diamond and Related Materials</i> , 2007 , 16, 209-215	3.5	34
45	Oxidation and removal mechanisms during chemical-mechanical planarization. <i>Wear</i> , 2007 , 263, 1477-1483	3.5	21
44	Deformation behavior and joining of a MgF ₂ optical ceramic. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 3371-3376	6	4

43	Zr and Ba edge phenomena in the scintillation intensity of fluorozirconate-based glass-ceramic X-ray detectors. <i>Journal of Synchrotron Radiation</i> , 2007 , 14, 252-6	2.4	4
42	A Glass-Ceramic Plate for Mammography. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 693-698	3.8	39
41	Fluorozirconate-based glass ceramic X-ray detectors for digital radiography. <i>Radiation Measurements</i> , 2007 , 42, 632-637	1.5	17
40	Complementary neutron and x-ray reflectivity studies of near-frictionless carbon films. <i>Journal of Applied Physics</i> , 2007 , 101, 103538	2.5	6
39	Complementary neutron and x-ray reflectivity studies of near-frictionless carbon films. <i>Journal of Applied Physics</i> , 2007 , 101, 123516	2.5	
38	Fluorozirconate-based glass-ceramic storage phosphors for digital mammography 2007 ,		1
37	Strontium environment transition in tin silicate glasses by neutron and X-ray diffraction. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 4084-4092	3.9	8
36	Transparent BaCl ₂ :Eu ²⁺ +glass-ceramic scintillator 2006 , 6142, 994		7
35	Insights into phase formation in fluorochlorozirconate glass-ceramic storage phosphors. <i>Applied Physics Letters</i> , 2006 , 88, 191915	3.4	11
34	Deposition, characterization, and tribological applications of near-frictionless carbon films on glass and ceramic substrates. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, S1751-62	1.8	14
33	Structures and visco-elastic properties of potassium tellurite: glass versus melt. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 903-914	1.8	2
32	Energy-dependent scintillation intensity of fluorozirconate-based glass-ceramic x-ray detectors 2006 ,		4
31	Fluorozirconate-based nanophase glass ceramics for high-resolution medical X-ray imaging. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 610-614	3.9	23
30	Interpretation of the Raman spectra of ultrananocrystalline diamond. <i>Diamond and Related Materials</i> , 2005 , 14, 86-92	3.5	211
29	Mössbauer spectroscopy as a probe of silicate glasses. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, R381-R412	1.8	16
28	Thermal and mechanical properties of rare earth aluminate and low-silica aluminosilicate optical glasses. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 650-655	3.9	43
27	ZBLAN-based x-ray storage phosphors and scintillators for digital x-ray imaging 2005 ,		8
26	Temperature Dependence of Diamondlike Carbon Film Tribological Characteristics. <i>Journal of the American Ceramic Society</i> , 2005 , 88, 3110-3115	3.8	2

25	Insights into Near-frictionless carbon films. <i>Journal of Applied Physics</i> , 2004 , 95, 7765-7771	2.5	37
24	X-Ray Studies of Near-Frictionless Carbon Films. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 843, 271		2
23	Fluctuation Microscopy Studies of Medium-range Order Structures of Near Frictionless Carbon Films. <i>Microscopy and Microanalysis</i> , 2004 , 10, 798-799	0.5	
22	Site symmetry in binary and ternary tin silicate glasses. ^{99}Si and ^{119}Sn nuclear magnetic resonance. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, S2457-S2472	1.8	11
21	Cation coordination in oxychloride glasses. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 755-764	1.8	4
20	Structure of oxychloride glasses by neutron and x-ray μ -difference and x-ray photoelectron spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 4679-4693	1.8	2
19	Near-surface characterization of amorphous carbon films by neutron reflectivity. <i>Applied Physics Letters</i> , 2003 , 83, 452-454	3.4	20
18	Thermally poled silica samples are structurally heterogeneous: Electron diffraction evidence of partial crystallization. <i>Applied Physics Letters</i> , 2001 , 78, 1991-1993	3.4	16
17	Tin germanate glasses. <i>Journal of Non-Crystalline Solids</i> , 2001 , 293-295, 175-181	3.9	11
16	Ternary alkali stannosilicate glasses: a Mössbauer and neutron diffraction study. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 213-230	1.8	12
15	Magneto-optic Kerr effect investigation of cobalt and permalloy nanoscale dot arrays: Shape effects on magnetization reversal. <i>Applied Physics Letters</i> , 2000 , 77, 4410-4412	3.4	28
14	Oxidation of Aqueous Polyselenide Solutions. A Mechanistic Pulse Radiolysis Study. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 4011-4016	2.8	9
13	Transition metal ions in ternary sodium silicate glasses: a Mössbauer and neutron study. <i>Journal of Non-Crystalline Solids</i> , 1999 , 246, 104-114	3.9	42
12	The structure of sodium iron silicate glass. A multi-technique approach. <i>Journal of Non-Crystalline Solids</i> , 1999 , 253, 192-202	3.9	63
11	On the Constituents of Aqueous Polyselenide Electrolytes: A Combined Theoretical and Raman Spectroscopic Study. <i>Journal of the American Chemical Society</i> , 1999 , 121, 4461-4467	16.4	22
10	Selenium Nanoparticles: A Small-Angle Neutron Scattering Study. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 59-63	3.4	117
9	Characterization of tin at the surface of float glass. <i>Journal of Non-Crystalline Solids</i> , 1998 , 242, 183-188	3.9	43
8	Atomic structure of solid and liquid polyethylene oxide. <i>Journal of Chemical Physics</i> , 1998 , 109, 7005-7010	3.9	48

7	Determination of the sign of the quadrupole coupling constant of in silicate glasses by Mössbauer spectroscopy. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 7477-7483	1.8	4
6	Tin oxidation state, depth profiles of Sn ²⁺ and Sn ⁴⁺ and oxygen diffusivity in float glass by Mössbauer spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 1997 , 211, 164-172	3.9	59
5	Mössbauer spectra of tin in float glass. <i>Hyperfine Interactions</i> , 1995 , 95, 41-51	0.8	22
4	Mössbauer spectra of tin in binary Si-Sn oxide glasses. <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 9485-9497	5.2	24
3	Magnetic behaviour of the doped antiferromagnet K ₂ Fe _{1-x} Ga _x F ₅ . <i>Journal of Physics Condensed Matter</i> , 1989 , 1, 6731-6744	1.8	4
2	Phase transitions in doped antiferromagnets. <i>Hyperfine Interactions</i> , 1988 , 42, 1039-1042	0.8	
1	A Mossbauer effect study of the magnetic phase diagram and spin wave excitations in the antiferromagnet Cs ₂ FeCl ₅ .H ₂ O. <i>Journal of Physics C: Solid State Physics</i> , 1987 , 20, 91-109		12