

Jacqueline A Johnson

List of Publications by Year in descending order

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112
papers

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citations

236925

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114
all docs

114
docs citations

114
times ranked

2632
citing authors

#	ARTICLE	IF	CITATIONS
1	Interpretation of the Raman spectra of ultrananocrystalline diamond. <i>Diamond and Related Materials</i> , 2005, 14, 86-92.	3.9	237
2	Selenium Nanoparticles: A Small-Angle Neutron Scattering Study. <i>Journal of Physical Chemistry B</i> , 1999, 103, 59-63.	2.6	134
3	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.	7.8	109
4	In situ TEM studies of tribo-induced bonding modifications in near-frictionless carbon films. <i>Carbon</i> , 2010, 48, 587-591.	10.3	82
5	Magnetic Resonance-Guided Laser Induced Thermal Therapy for Glioblastoma Multiforme: A Review. <i>BioMed Research International</i> , 2014, 2014, 1-9.	1.9	78
6	The structure of sodium iron silicate glass – a multi-technique approach. <i>Journal of Non-Crystalline Solids</i> , 1999, 253, 192-202.	3.1	76
7	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.	3.1	65
8	The reaction mechanism of FeSb ₂ as anode for sodium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9538.	2.8	65
9	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.	3.1	64
10	Magnetic Particle Imaging: Current and Future Applications, Magnetic Nanoparticle Synthesis Methods and Safety Measures. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7651.	4.1	55
11	Atomic structure of solid and liquid polyethylene oxide. <i>Journal of Chemical Physics</i> , 1998, 109, 7005-7010.	3.0	52
12	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.	3.1	52
13	Characterization of tin at the surface of float glass. <i>Journal of Non-Crystalline Solids</i> , 1998, 242, 183-188.	3.1	45
14	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.	3.3	44
15	Transition metal ions in ternary sodium silicate glasses: a Mössbauer and neutron study. <i>Journal of Non-Crystalline Solids</i> , 1999, 246, 104-114.	3.1	43
16	Insights into near-frictionless carbon films. <i>Journal of Applied Physics</i> , 2004, 95, 7765-7771.	2.5	40
17	Top-surface characterization of a near frictionless carbon film. <i>Diamond and Related Materials</i> , 2007, 16, 209-215.	3.9	39
18	A Glass-Ceramic Plate for Mammography. <i>Journal of the American Ceramic Society</i> , 2007, 90, 693-698.	3.8	39

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19	Structural and optical investigations of Nd-doped fluorozirconate-based glass ceramics for enhanced upconverted fluorescence. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	38
20	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.	3.9	31
21	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.	13.7	28
22	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.	3.3	28
23	Mossbauer spectra of tin in binary Si-Sn oxide glasses. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 9485-9497.	1.8	26
24	A neutron diffraction study of nano-crystalline graphite oxide. <i>Carbon</i> , 2009, 47, 2239-2243.	10.3	26
25	Concentration-dependent luminescence and energy transfer in SiO_2 -borate and fluorozirconate glasses. <i>Journal of Luminescence</i> , 2017, 187, 298-303.	3.1	26
26	Fluorozirconate-based nanophase glass ceramics for high-resolution medical X-ray imaging. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 610-614.	3.1	25
27	Mössbauer spectra of tin in float glass. <i>Hyperfine Interactions</i> , 1995, 95, 41-51.	0.5	24
28	Oxidation and removal mechanisms during chemical-mechanical planarization. <i>Wear</i> , 2007, 263, 1477-1483.	3.1	22
29	Near-surface characterization of amorphous carbon films by neutron reflectivity. <i>Applied Physics Letters</i> , 2003, 83, 452-454.	3.3	21
30	Fluorozirconate-based glass ceramic X-ray detectors for digital radiography. <i>Radiation Measurements</i> , 2007, 42, 632-637.	1.4	21
31	Multi-functionality of fluorescent nanocrystals in glass ceramics. <i>Radiation Measurements</i> , 2010, 45, 485-489.	1.4	21
32	Eu oxidation state in fluorozirconate-based glass ceramics. <i>Journal of Applied Physics</i> , 2009, 106, 113501.	2.5	19
33	Thermally poled silica samples are structurally heterogeneous: Electron diffraction evidence of partial crystallization. <i>Applied Physics Letters</i> , 2001, 78, 1991-1993.	3.3	18
34	Mössbauer spectroscopy as a probe of silicate glasses. <i>Journal of Physics Condensed Matter</i> , 2005, 17, R381-R412.	1.8	18
35	Influence of rare-earth ions on SiO_2 - Na_2O - RE_2O_3 glass structure. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 065404.	1.8	18
36	Rare earth doped downshifting glass ceramics for photovoltaic applications. <i>Journal of Non-Crystalline Solids</i> , 2013, 366, 1-5.	3.1	18

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37	A Zinc Oxide Carbon Nanotube Based Sensor for In Situ Monitoring of Hydrogen Peroxide in Swimming Pools. <i>Electroanalysis</i> , 2015, 27, 2552-2558.	2.9	18
38	Mössbauer spectroscopy of superparamagnetic Fe ₃ O ₄ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 539, 168382.	2.3	16
39	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-S1762.	1.8	15
40	Saturation effects in the upconversion efficiency of Er-doped fluorozirconate glasses. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 155107.	1.8	15
41	Antifog coating for bronchoscope lens. <i>Surface Engineering</i> , 2012, 28, 468-472.	2.2	15
42	Oxygen Insertion Reactions within the One-Dimensional Channels of Phases Related to FeSb ₂ O ₄ . <i>Inorganic Chemistry</i> , 2017, 56, 594-607.	4.0	14
43	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.	1.5	13
44	Site symmetry in binary and ternary tin silicate glasses— ²⁹ Si and ¹¹⁹ Sn nuclear magnetic resonance. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S2457-S2472.	1.8	13
45	Insights into phase formation in fluorochlorozirconate glass-ceramic storage phosphors. <i>Applied Physics Letters</i> , 2006, 88, 191915.	3.3	13
46	Nanocrystallization in Fluorochlorozirconate Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3617-3621.	3.8	13
47	Ternary alkali stannosilicate glasses: a Mössbauer and neutron diffraction study. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 213-230.	1.8	12
48	Tin germanate glasses. <i>Journal of Non-Crystalline Solids</i> , 2001, 293-295, 175-181.	3.1	12
49	Topotactic Fluorine Insertion into the Channels of FeSb ₂ O ₄ -Related Materials. <i>Inorganic Chemistry</i> , 2017, 56, 10078-10089.	4.0	12
50	Oxidation of Aqueous Polyselenide Solutions. A Mechanistic Pulse Radiolysis Study. <i>Journal of Physical Chemistry A</i> , 2000, 104, 4011-4016.	2.5	11
51	Carbon-hydrogen bonding in near-frictionless carbon. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	11
52	Differential scanning calorimetry investigations on Eu-doped fluorozirconate-based glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 3085-3089.	3.1	11
53	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	11
54	Magnetism and Mössbauer study of formation of multi-core ⁵⁷ Fe-Fe ₂ O ₃ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 451, 131-136.	2.3	11

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55	Crystallization in heat-treated fluorochlorozirconate glasses. Journal of Physics Condensed Matter, 2009, 21, 375103.	1.8	10
56	The oxidation state of europium in halide glasses. Journal of Physics Condensed Matter, 2011, 23, 495402.	1.8	10
57	ZBLAN-based x-ray storage phosphors and scintillators for digital x-ray imaging. , 2005, , .		9
58	Strontium environment transition in tin silicate glasses by neutron and X-ray diffraction. Journal of Non-Crystalline Solids, 2007, 353, 4084-4092.	3.1	9
59	Crystallization behavior of rare-earth doped fluorochlorozirconate glasses. Journal of Non-Crystalline Solids, 2011, 357, 2450-2452.	3.1	9
60	Crystallization studies on rare-earth co-doped fluorozirconate-based glasses. Journal of Non-Crystalline Solids, 2013, 371-372, 33-36.	3.1	9
61	Structural and Kinetic Analysis of BaCl ₂ Nanocrystals in Fluorochlorozirconate Glass-Ceramics. Journal of the American Ceramic Society, 2015, 98, 1099-1104.	3.8	9
62	Characterization of Luminescent Materials with ¹⁵¹ Eu Mössbauer Spectroscopy. Materials, 2018, 11, 828.	2.9	9
63	Transparent BaCl ₂ :Eu ²⁺ -glass-ceramic scintillator. , 2006, 6142, 994.		8
64	Composition-structure-property effects of antimony in soda-lime-silica glasses. Journal of Non-Crystalline Solids, 2020, 544, 120184.	3.1	8
65	Erbium- and chlorine-doped fluorozirconate-based glasses for up-converted fluorescence. Journal of Non-Crystalline Solids, 2009, 355, 1916-1918.	3.1	7
66	Time-resolved investigations of erbium ions in ZBLAN-based glasses and glass ceramics. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2649-2652.	0.8	7
67	Structural properties of fluorozirconate-based glass ceramics doped with multivalent europium. Journal of Applied Physics, 2011, 110, 113527-113527.	2.5	7
68	Temperature-dependent luminescence of Tb ³⁺ and Eu ³⁺ single-doped glasses for LED applications. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 1359-1364.	0.8	7
69	Complementary neutron and x-ray reflectivity studies of near-frictionless carbon films. Journal of Applied Physics, 2007, 101, 103538.	2.5	6
70	Enhanced up-converted fluorescence in fluorozirconate based glass ceramics for high efficiency solar cells. , 2008, , .		6
71	The effects of sodium fluoride content on the properties of fluorochlorozirconate glass-ceramic storage phosphors. Journal of the American Ceramic Society, 2017, 100, 1551-1560.	3.8	6
72	Magnetic behaviour of the doped antiferromagnet K ₂ Fe _{1-x} Ga _x F ₅ . Journal of Physics Condensed Matter, 1989, 1, 6731-6744.	1.8	5

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73	Deformation behavior and joining of a MgF ₂ optical ceramic. Journal of the European Ceramic Society, 2007, 27, 3371-3376.	5.7	5
74	Advances in up- and down-converted fluorescence for high efficiency solar cells using rare-earth doped fluorozirconate-based glasses and glass ceramics. Proceedings of SPIE, 2010, , .	0.8	5
75	Mössbauer spectroscopy of europium-doped fluorochlorozirconate glasses and glass ceramics: optimization of storage phosphors in computed radiography. Journal of Physics Condensed Matter, 2013, 25, 205402.	1.8	5
76	Mössbauer spectra and superparamagnetism of europium sulfide nanoparticles. Journal Physics D: Applied Physics, 2014, 47, 075001.	2.8	5
77	Pulsed laser deposition of transparent fluoride glass. Journal of Non-Crystalline Solids, 2018, 488, 19-23.	3.1	5
78	Determination of the sign of the quadrupole coupling constant of in silicate glasses by Mössbauer spectroscopy. Journal of Physics Condensed Matter, 1997, 9, 7477-7483.	1.8	4
79	Cation coordination in oxychloride glasses. Journal of Physics Condensed Matter, 2003, 15, 755-764.	1.8	4
80	Temperature Dependence of Diamondlike Carbon Film Tribological Characteristics. Journal of the American Ceramic Society, 2005, 88, 3110-3115.	3.8	4
81	Energy-dependent scintillation intensity of fluorozirconate-based glass-ceramic x-ray detectors. , 2006, , .		4
82	Zr and Ba edge phenomena in the scintillation intensity of fluorozirconate-based glass-ceramic X-ray detectors. Journal of Synchrotron Radiation, 2007, 14, 252-256.	2.4	4
83	The magnetic and crystal structures of Sr ¹⁺ FeO _{2-x} F _x , a new oxyfluoride. Chemical Communications, 2016, 52, 2386-2389.	4.1	4
84	X-Ray Studies of Near-Frictionless Carbon Films.. Materials Research Society Symposia Proceedings, 2004, 843, 271.	0.1	3
85	Paramagnetic hyperfine splitting in the $E $u$$ spectra of $CaF_2 </math>$	3.2	3
86	Progress on up- and down-converted fluorescence in rare-doped fluorozirconate-based glass ceramics for high efficiency solar cells. Proceedings of SPIE, 2010, , .	0.8	3
87	Scanning translucent glass-ceramic x-ray storage phosphors. Proceedings of SPIE, 2010, 7622, 76223W.	0.8	3
88	Protective coatings for enhanced performance in biomedical applications. Surface Engineering, 2012, 28, 473-479.	2.2	3
89	The effect of trivalent iron on the properties of fluorochlorozirconate glass ceramics. Journal of Non-Crystalline Solids, 2018, 484, 8-13.	3.1	3
90	Scintillating glass-ceramic substrates for indirect flat panel detectors in digital radiography. Journal of the American Ceramic Society, 2020, 103, 6893-6900.	3.8	3

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91	Scintillator Glasses. Springer Handbooks, 2019, , 1555-1584.	0.6	3
92	Thermal decomposition kinetic study of Fe ₅ C ₂ nanoparticles. Journal of Physics and Chemistry of Solids, 2022, 161, 110436.	4.0	3
93	Antimony-modified soda-lime-silica glass: Towards low-cost radiation-resistant materials. Journal of Non-Crystalline Solids, 2022, 585, 121526.	3.1	3
94	Structure of oxychloride glasses by neutron and x-ray Δ difference Δ and x-ray photoelectron spectroscopy. Journal of Physics Condensed Matter, 2003, 15, 4679-4693.	1.8	2
95	Structures and visco-elastic properties of potassium tellurite: glass versus melt. Journal of Physics Condensed Matter, 2006, 18, 903-914.	1.8	2
96	The effect of annealing on optical transmittance and structure of ZLANI fluorozirconate glass thin films. Micron, 2021, 140, 102977.	2.2	2
97	Magnetic properties of the MRI enhancement agent Feridex from $M\ddot{A}$ ssbauer spectra. Hyperfine Interactions, 2021, 242, 1.	0.5	2
98	Fluorozirconate-based glass-ceramic storage phosphors for digital mammography. , 2007, , .		1
99	Fifty years of $M\ddot{A}$ ssbauer spectroscopy: from alloys and oxides to glasses and nanoparticles. Hyperfine Interactions, 2012, 204, 47-55.	0.5	1
100	Line Narrowing in $M\ddot{A}$ ssbauer Spectra of Superparamagnetic Fe ₃ O ₄ Nanoparticles. Journal of Physics: Conference Series, 2014, 548, 012021.	0.4	1
101	$M\ddot{A}$ ssbauer spectroscopy of europium-containing glasses: optical activator study for x-ray image plates. Hyperfine Interactions, 2014, 226, 797-801.	0.5	1
102	The Correlation of Optical Transmittance with Structural Evolution in Fluorozirconate Glass (ZLANI) Thin Films as a Function of Thermal Annealing. Microscopy and Microanalysis, 2019, 25, 2070-2071.	0.4	1
103	Opportunities for Fluorochlorozirconate and Other Glass-Ceramic Detectors in Medical Imaging Devices. Journal of Biomedical Technology and Research, 2015, 02, .	0.2	1
104	Phase transitions in doped antiferromagnets. Hyperfine Interactions, 1988, 42, 1039-1042.	0.5	0
105	Fluctuation Microscopy Studies of Medium-range Order Structures of Near Frictionless Carbon Films. Microscopy and Microanalysis, 2004, 10, 798-799.	0.4	0
106	Complementary neutron and x-ray reflectivity studies of $\hat{\alpha}$ near-frictionless $\hat{\alpha}$ carbon films. Journal of Applied Physics, 2007, 101, 123516.	2.5	0
107	XANES Studies on Eu-doped Fluorozirconate Based Glass Ceramics. Materials Research Society Symposia Proceedings, 2010, 1262, 7956536.	0.1	0
108	Optical diagnostic and therapy applications of femtosecond laser radiation using lens-axicon focusing. , 2013, 2013, 374-7.		0

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109	Europium-doped barium chloride storage phosphor plate synthesized by pulsed laser deposition. Journal of the American Ceramic Society, 2021, 104, 4568-4576.	3.8	0
110	Chapter 3 Glass-Ceramic Scintillator. , 2017, , 79-106.		0
111	Optical properties of differing nanolayered structures of divalent europium doped barium fluoride thin films synthesized by pulsed laser deposition. Optical Materials, 2021, 122, 111796.	3.6	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. Thin Solid Films, 2022, , 139298.	1.8	0