

Jacqueline A Johnson

List of Publications by Year in descending order

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112
papers

2,218
citations

236612

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43
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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. | 1.8 | 237 |
| 2 | Selenium Nanoparticles: A Small-Angle Neutron Scattering Study. <i>Journal of Physical Chemistry B</i> , 1999, 103, 59-63. | 1.2 | 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. | 4.0 | 109 |
| 4 | In situ TEM studies of tribo-induced bonding modifications in near-frictionless carbon films. <i>Carbon</i> , 2010, 48, 587-591. | 5.4 | 82 |
| 5 | Magnetic Resonance-Guided Laser Induced Thermal Therapy for Glioblastoma Multiforme: A Review. <i>BioMed Research International</i> , 2014, 2014, 1-9. | 0.9 | 78 |
| 6 | The structure of sodium iron silicate glass – a multi-technique approach. <i>Journal of Non-Crystalline Solids</i> , 1999, 253, 192-202. | 1.5 | 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. | 1.5 | 65 |
| 8 | The reaction mechanism of FeSb ₂ as anode for sodium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 9538. | 1.3 | 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. | 1.5 | 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. | 1.8 | 55 |
| 11 | Atomic structure of solid and liquid polyethylene oxide. <i>Journal of Chemical Physics</i> , 1998, 109, 7005-7010. | 1.2 | 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. | 1.5 | 52 |
| 13 | Characterization of tin at the surface of float glass. <i>Journal of Non-Crystalline Solids</i> , 1998, 242, 183-188. | 1.5 | 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. | 1.4 | 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. | 1.5 | 43 |
| 16 | Insights into near-frictionless carbon films. <i>Journal of Applied Physics</i> , 2004, 95, 7765-7771. | 1.1 | 40 |
| 17 | Top-surface characterization of a near frictionless carbon film. <i>Diamond and Related Materials</i> , 2007, 16, 209-215. | 1.8 | 39 |
| 18 | A Glass-Ceramic Plate for Mammography. <i>Journal of the American Ceramic Society</i> , 2007, 90, 693-698. | 1.9 | 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, . | 1.5 | 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. | 1.6 | 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. | 6.6 | 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. | 1.5 | 28 |
| 23 | Mossbauer spectra of tin in binary Si-Sn oxide glasses. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 9485-9497. | 0.7 | 26 |
| 24 | A neutron diffraction study of nano-crystalline graphite oxide. <i>Carbon</i> , 2009, 47, 2239-2243. | 5.4 | 26 |
| 25 | Concentration-dependent luminescence and energy transfer in SiO_2 - B_2O_3 - Tb^{3+} borate and fluorozirconate glasses. <i>Journal of Luminescence</i> , 2017, 187, 298-303. | 1.5 | 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. | 1.5 | 25 |
| 27 | Mössbauer spectra of tin in float glass. <i>Hyperfine Interactions</i> , 1995, 95, 41-51. | 0.2 | 24 |
| 28 | Oxidation and removal mechanisms during chemical-mechanical planarization. <i>Wear</i> , 2007, 263, 1477-1483. | 1.5 | 22 |
| 29 | Near-surface characterization of amorphous carbon films by neutron reflectivity. <i>Applied Physics Letters</i> , 2003, 83, 452-454. | 1.5 | 21 |
| 30 | Fluorozirconate-based glass ceramic X-ray detectors for digital radiography. <i>Radiation Measurements</i> , 2007, 42, 632-637. | 0.7 | 21 |
| 31 | Multi-functionality of fluorescent nanocrystals in glass ceramics. <i>Radiation Measurements</i> , 2010, 45, 485-489. | 0.7 | 21 |
| 32 | Eu oxidation state in fluorozirconate-based glass ceramics. <i>Journal of Applied Physics</i> , 2009, 106, 113501. | 1.1 | 19 |
| 33 | Thermally poled silica samples are structurally heterogeneous: Electron diffraction evidence of partial crystallization. <i>Applied Physics Letters</i> , 2001, 78, 1991-1993. | 1.5 | 18 |
| 34 | Mössbauer spectroscopy as a probe of silicate glasses. <i>Journal of Physics Condensed Matter</i> , 2005, 17, R381-R412. | 0.7 | 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. | 0.7 | 18 |
| 36 | Rare earth doped downshifting glass ceramics for photovoltaic applications. <i>Journal of Non-Crystalline Solids</i> , 2013, 366, 1-5. | 1.5 | 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. | 1.5 | 18 |
| 38 | Mössbauer spectroscopy of superparamagnetic Fe ₃ O ₄ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 539, 168382. | 1.0 | 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. | 0.7 | 15 |
| 40 | Saturation effects in the upconversion efficiency of Er-doped fluorozirconate glasses. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 155107. | 0.7 | 15 |
| 41 | Antifog coating for bronchoscope lens. <i>Surface Engineering</i> , 2012, 28, 468-472. | 1.1 | 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. | 1.9 | 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. | 0.7 | 13 |
| 45 | Insights into phase formation in fluorochlorozirconate glass-ceramic storage phosphors. <i>Applied Physics Letters</i> , 2006, 88, 191915. | 1.5 | 13 |
| 46 | Nanocrystallization in Fluorochlorozirconate Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3617-3621. | 1.9 | 13 |
| 47 | Ternary alkali stannosilicate glasses: a Mössbauer and neutron diffraction study. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 213-230. | 0.7 | 12 |
| 48 | Tin germanate glasses. <i>Journal of Non-Crystalline Solids</i> , 2001, 293-295, 175-181. | 1.5 | 12 |
| 49 | Topotactic Fluorine Insertion into the Channels of FeSb ₂ O ₄ -Related Materials. <i>Inorganic Chemistry</i> , 2017, 56, 10078-10089. | 1.9 | 12 |
| 50 | Oxidation of Aqueous Polyselenide Solutions. A Mechanistic Pulse Radiolysis Study. <i>Journal of Physical Chemistry A</i> , 2000, 104, 4011-4016. | 1.1 | 11 |
| 51 | Carbon-hydrogen bonding in near-frictionless carbon. <i>Applied Physics Letters</i> , 2008, 93, . | 1.5 | 11 |
| 52 | Differential scanning calorimetry investigations on Eu-doped fluorozirconate-based glass ceramics. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 3085-3089. | 1.5 | 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. | 1.9 | 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. | 1.0 | 11 |

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|----|---|-----|-----------|
| 55 | Crystallization in heat-treated fluorochlorozirconate glasses. Journal of Physics Condensed Matter, 2009, 21, 375103. | 0.7 | 10 |
| 56 | The oxidation state of europium in halide glasses. Journal of Physics Condensed Matter, 2011, 23, 495402. | 0.7 | 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. | 1.5 | 9 |
| 59 | Crystallization behavior of rare-earth doped fluorochlorozirconate glasses. Journal of Non-Crystalline Solids, 2011, 357, 2450-2452. | 1.5 | 9 |
| 60 | Crystallization studies on rare-earth co-doped fluorozirconate-based glasses. Journal of Non-Crystalline Solids, 2013, 371-372, 33-36. | 1.5 | 9 |
| 61 | Structural and Kinetic Analysis of BaCl ₂ Nanocrystals in Fluorochlorozirconate Glass-Ceramics. Journal of the American Ceramic Society, 2015, 98, 1099-1104. | 1.9 | 9 |
| 62 | Characterization of Luminescent Materials with ¹⁵¹ Eu Mössbauer Spectroscopy. Materials, 2018, 11, 828. | 1.3 | 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. | 1.5 | 8 |
| 65 | Erbium- and chlorine-doped fluorozirconate-based glasses for up-converted fluorescence. Journal of Non-Crystalline Solids, 2009, 355, 1916-1918. | 1.5 | 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, 113527-1135275. | 1.1 | 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. | 1.1 | 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. | 1.9 | 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. | 0.7 | 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. | 2.8 | 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. | 0.7 | 5 |
| 76 | Mössbauer spectra and superparamagnetism of europium sulfide nanoparticles. Journal Physics D: Applied Physics, 2014, 47, 075001. | 1.3 | 5 |
| 77 | Pulsed laser deposition of transparent fluoride glass. Journal of Non-Crystalline Solids, 2018, 488, 19-23. | 1.5 | 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. | 0.7 | 4 |
| 79 | Cation coordination in oxychloride glasses. Journal of Physics Condensed Matter, 2003, 15, 755-764. | 0.7 | 4 |
| 80 | Temperature Dependence of Diamondlike Carbon Film Tribological Characteristics. Journal of the American Ceramic Society, 2005, 88, 3110-3115. | 1.9 | 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. | 1.0 | 4 |
| 83 | The magnetic and crystal structures of Sr ¹⁺ FeO ₂ x, a new oxyfluoride. Chemical Communications, 2016, 52, 2386-2389. | 2.2 | 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 $CaF_2 </math>$ | 1.1 | 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. | 1.1 | 3 |
| 89 | The effect of trivalent iron on the properties of fluorochlorozirconate glass ceramics. Journal of Non-Crystalline Solids, 2018, 484, 8-13. | 1.5 | 3 |
| 90 | Scintillating glass-ceramic substrates for indirect flat panel detectors in digital radiography. Journal of the American Ceramic Society, 2020, 103, 6893-6900. | 1.9 | 3 |

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| 91 | Scintillator Glasses. Springer Handbooks, 2019, , 1555-1584. | 0.3 | 3 |
| 92 | Thermal decomposition kinetic study of Fe ₅ C ₂ nanoparticles. Journal of Physics and Chemistry of Solids, 2022, 161, 110436. | 1.9 | 3 |
| 93 | Antimony-modified soda-lime-silica glass: Towards low-cost radiation-resistant materials. Journal of Non-Crystalline Solids, 2022, 585, 121526. | 1.5 | 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. | 0.7 | 2 |
| 95 | Structures and visco-elastic properties of potassium tellurite: glass versus melt. Journal of Physics Condensed Matter, 2006, 18, 903-914. | 0.7 | 2 |
| 96 | The effect of annealing on optical transmittance and structure of ZLANI fluorozirconate glass thin films. Micron, 2021, 140, 102977. | 1.1 | 2 |
| 97 | Magnetic properties of the MRI enhancement agent Feridex from $M\ddot{A}$ ssbauer spectra. Hyperfine Interactions, 2021, 242, 1. | 0.2 | 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. | 0.2 | 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. | 0.3 | 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. | 0.2 | 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. | 0.2 | 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. | 0.2 | 0 |
| 105 | Fluctuation Microscopy Studies of Medium-range Order Structures of Near Frictionless Carbon Films. Microscopy and Microanalysis, 2004, 10, 798-799. | 0.2 | 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. | 1.1 | 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. | 1.9 | 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. | 1.7 | 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. | 0.8 | 0 |