

Jong Heo

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160
papers

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166
ext. papers

3,916
ext. citations

3.6
avg, IF

5.52
L-index

#	Paper	IF	Citations
160	Vibrational spectra and structure of heavy metal oxide glasses. <i>Journal of Non-Crystalline Solids</i> , 1996 , 202, 233-240	3.9	202
159	Vitrification of fly ash from municipal solid waste incinerator. <i>Journal of Hazardous Materials</i> , 2002 , 91, 83-93	12.8	199
158	Phosphor in glasses with Pb-free silicate glass powders as robust color-converting materials for white LED applications. <i>Optics Letters</i> , 2012 , 37, 3276-8	3	149
157	Raman spectroscopic analysis on the solubility mechanism of La ³⁺ in GeS ₂ -Ga ₂ S ₃ glasses. <i>Journal of Non-Crystalline Solids</i> , 1998 , 238, 115-123	3.9	144
156	1.3 μ m emission and multiphonon relaxation phenomena in PbO-Bi ₂ O ₃ -Ga ₂ O ₃ glasses doped with rare-earths. <i>Journal of Non-Crystalline Solids</i> , 1997 , 217, 199-207	3.9	115
155	Comparative study of energy transfers from Er ³⁺ to Ce ³⁺ in tellurite and sulfide glasses under 980 nm excitation. <i>Journal of Applied Physics</i> , 2000 , 88, 3832	2.5	93
154	Emission properties of the Er ³⁺ : ⁴ I _{11/2} - ⁶ I _{13/2} transition in Er ³⁺ - and Er ³⁺ /Tm ³⁺ -doped Ge-As-S glasses. <i>Journal of Non-Crystalline Solids</i> , 2000 , 278, 137-144	3.9	79
153	Control of chromaticity by phosphor in glasses with low temperature sintered silicate glasses for LED applications. <i>Optics Letters</i> , 2014 , 39, 4084-7	3	78
152	1.6 μ m emission from Pr ³⁺ : (3F ₃ ,3F ₄)- ³ H ₄ transition in Pr ³⁺ - and Pr ³⁺ /Er ³⁺ -doped selenide glasses. <i>Applied Physics Letters</i> , 2001 , 78, 1249-1251	3.4	74
151	Spectroscopic Properties of and Energy Transfer in PbO-Bi ₂ O ₃ -Ga ₂ O ₃ Glass Doped with Er ₂ O ₃ . <i>Journal of the American Ceramic Society</i> , 2004 , 82, 2762-2768	3.8	67
150	Multiphonon and cross relaxation phenomena in Ge-As(or Ga)-S glasses doped with Tm ³⁺ . <i>Journal of Non-Crystalline Solids</i> , 1996 , 208, 29-35	3.9	65
149	Photoluminescence of PbS quantum dots embedded in glasses. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 618-623	3.9	64
148	Emission properties of PbO-Bi ₂ O ₃ -Ga ₂ O ₃ -GeO ₂ glasses doped with Tm ³⁺ and Ho ³⁺ . <i>Journal of Applied Physics</i> , 2003 , 93, 9441-9445	2.5	57
147	Phosphor in glass with Eu ³⁺ and Pr ³⁺ -doped silicate glasses for LED color conversion. <i>Optical Materials</i> , 2015 , 41, 67-70	3.3	54
146	Mechanism of the enhancement of mid-infrared emission from GeS ₂ -Ga ₂ S ₃ chalcogenide glass-ceramics doped with Tm ³⁺ . <i>Applied Physics Letters</i> , 2012 , 100, 231910	3.4	48
145	Generation of white light from oxy-fluoride nano-glass doped with Ho ³⁺ , Tm ³⁺ and Yb ³⁺ . <i>Materials Letters</i> , 2007 , 61, 3751-3754	3.3	47
144	2.0 μ m Emission Properties and Energy Transfer between Ho ³⁺ and Tm ³⁺ in PbO-Bi ₂ O ₃ -Ga ₂ O ₃ Glasses. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 787-791	3.8	47

143	Optical characteristics of rare-earth-doped sulphide glasses. <i>Journal of Materials Science Letters</i> , 1995 , 14, 1014-1016		47
142	Stable and Color-Tailorable White Light from Blue LEDs Using Color-Converting Phosphor-Glass Composites. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 342-345	3.8	41
141	Enhancement of the 1.31- μ m emission properties of Dy ³⁺ -doped GeGaS glasses with the addition of alkali halides. <i>Journal of Materials Research</i> , 2001 , 16, 1318-1324	2.5	41
140	Ga K-edge EXAFS analysis on the coordination of gallium in PbO-Ca ₂ O ₃ glasses. <i>Journal of Non-Crystalline Solids</i> , 1997 , 221, 199-207	3.9	37
139	Ge and Ga K-edge EXAFS analyses on the structure of GeGaS ₂ Br glasses. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 423-428	3.9	37
138	Optical properties of CdSe quantum dots in silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 2299-2301	3.9	36
137	Modification of the local phonon modes and electron-phonon coupling strengths in Dy ³⁺ -doped sulfide glasses for efficient 1.3 μ m amplification. <i>Chemical Physics Letters</i> , 2000 , 317, 637-641	2.5	36
136	1.48- μ m emission properties and energy transfer between Tm ³⁺ and Ho ³⁺ /Er ³⁺ in GeGaAsS ₂ Br glasses. <i>Journal of Applied Physics</i> , 2005 , 97, 083542	2.5	35
135	Electron Energy Loss Spectroscopy Analysis on the Preferential Incorporation of Er ³⁺ Ions into Fluoride Nanocrystals in Oxyfluoride Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2100-2102	3.8	33
134	Dy ³⁺ doped Ge-Ga-Sb-Se glasses and optical fibers for the mid-IR gain media. <i>Journal of the Ceramic Society of Japan</i> , 2008 , 116, 1087-1091	1	33
133	Temperature-dependent brightening and darkening of photoluminescence from PbS quantum dots in glasses. <i>Applied Physics Letters</i> , 2007 , 90, 241111	3.4	33
132	Lead Chalcogenide Quantum Dot-Doped Glasses for Photonic Devices. <i>International Journal of Applied Glass Science</i> , 2013 , 4, 163-173	1.8	30
131	Energy transfer processes and Ho ³⁺ : I ⁵⁵ level population dynamics in chalcogenide glasses. <i>Physical Review B</i> , 2006 , 73,	3.3	30
130	Emission characteristics of GeGaS glasses doped with Tm ³⁺ /Ho ³⁺ . <i>Journal of Non-Crystalline Solids</i> , 1996 , 203, 176-181	3.9	30
129	Analysis of cross relaxation between Tm ³⁺ ions in PbO-Bi ₂ O ₃ -Ca ₂ O ₃ -GeO ₂ glass. <i>Journal of Applied Physics</i> , 2003 , 94, 2817-2820	2.5	29
128	Surface Passivation of CdSe Quantum Dots in All Inorganic Amorphous Solid by Forming CdZnSe Shell. <i>Scientific Reports</i> , 2017 , 7, 42359	4.9	28
127	EXAFS spectroscopic study of PbO-Bi ₂ O ₃ -Ca ₂ O ₃ glasses. <i>Journal of Non-Crystalline Solids</i> , 1999 , 259, 205-211	3.9	28
126	Pbs quantum-dots in glass matrix for universal fiber-optic amplifier. <i>Journal of Materials Science: Materials in Electronics</i> , 2007 , 18, 135-139	2.1	27

125	1.6 μ m emission and gain properties of Ho ³⁺ in selenide and chalcogenide glasses. <i>Journal of Applied Physics</i> , 2005 , 98, 113510	2.5	26
124	Phosphor-in-glass with Nd-doped glass for a white LED with a wide color gamut. <i>Optics Letters</i> , 2018 , 43, 627-630	3	25
123	Optical properties of PbSe quantum dots doped in borosilicate glass. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 1897-1899	3.9	25
122	Germanosilicate glasses containing PbSe quantum dots for mid-infrared luminescence. <i>Journal of Non-Crystalline Solids</i> , 2016 , 431, 79-82	3.9	24
121	Lead Sulfide Quantum Dots Formation in Glasses Controlled by Erbium Ions. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3092-3094	3.8	24
120	Local Heating from Silver Nanoparticles and Its Effect on the Er ³⁺ Upconversion in Oxyfluoride Glasses. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3349-3353	3.8	23
119	Absorption and photoluminescence of PbS QDs in glasses. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 1880-1883	3.9	23
118	Rare-earth doped chalcogenide glasses for fiber-optic amplifiers. <i>Journal of Non-Crystalline Solids</i> , 2003 , 326-327, 410-415	3.9	23
117	Pr ³⁺ - and Pr ³⁺ /Er ³⁺ -Doped Selenide Glasses for Potential 1.6 μ m Optical Amplifier Materials. <i>ETRI Journal</i> , 2001 , 23, 97-105	1.4	23
116	A complete inorganic colour converter based on quantum-dot-embedded silicate glasses for white light-emitting-diodes. <i>Chemical Communications</i> , 2016 , 52, 3564-7	5.8	22
115	Crystallization and local environment of rare-earth ions in oxy-fluoride nanostructured glasses. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 2317-2323	3.9	22
114	Room temperature persistent spectral hole burning in x-ray irradiated Eu ³⁺ -doped borate glasses. <i>Applied Physics Letters</i> , 2001 , 79, 326-328	3.4	22
113	Optimization of Dy-doped Ge ₁₀ As ₁₀ Se ₇₀ Br glass composition and its 1.31 μ m emission properties. <i>Journal of Non-Crystalline Solids</i> , 2002 , 298, 153-159	3.9	22
112	1.2 μ m persistent luminescence of Ho ³⁺ in LaAlO ₃ and LaGaO ₃ perovskites. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 11374-11383	7.1	22
111	Mid-infrared luminescence from Sn-modified PbSe quantum dots in silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2016 , 431, 93-96	3.9	21
110	Intense up-conversion emission from Er ³⁺ /Yb ³⁺ ion co-doped transparent oxyfluoride glass-ceramics containing Y ₅ O ₄ F ₇ nanorods for optical thermometry. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6134-6143	7.1	21
109	Influence of silver nanoclusters on formation of PbS quantum dots in glasses. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 2428-2430	3.9	21
108	Local structure and its effect on the oscillator strengths and emission properties of Ho ³⁺ in chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 3107-3112	3.9	21

107	Laser-induced blue-shift of the photoluminescence from PbS quantum dots in glasses. <i>Chemical Physics Letters</i> , 2008 , 452, 281-284	2.5	21
106	Effect of CsBr addition on the emission properties of Tm ³⁺ ion in Ge-Ga-S glass. <i>Journal of Materials Research</i> , 2006 , 21, 2323-2330	2.5	21
105	EXAFS investigation on the structural environment of Tm ³⁺ in Ge ₃₀ Ga ₂₀ As ₆ S ₆₂ glasses. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 1251-1254	3.9	21
104	Extreme hypersensitivity observed from 6H _{15/2} ←6F _{11/2} transition of Dy ³⁺ in inorganic noncrystalline solids. <i>Chemical Physics Letters</i> , 2005 , 403, 29-34	2.5	21
103	Energy transfer between Er ³⁺ and Pr ³⁺ in chalcogenide glasses for dual-wavelength fiber-optic amplifiers. <i>Journal of Applied Physics</i> , 2002 , 91, 9072-9077	2.5	21
102	Characterization and X-ray Photoelectron Spectroscopy Investigation of PbO-Bi ₂ O ₃ -Ga ₂ O ₃ Glasses. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 1285-1290	3.8	21
101	Immobilization and bonding scheme of radioactive iodine-129 in silver tellurite glass. <i>Journal of Nuclear Materials</i> , 2017 , 492, 239-243	3.3	20
100	Optical modulation of near-infrared photoluminescence from lead sulfide quantum dots in glasses. <i>Applied Physics Letters</i> , 2009 , 94, 021103	3.4	20
99	1.48 μ s emission properties and the cross-relaxation mechanism in chalcogenide glass doped with Tm ³⁺ . <i>Journal of Non-Crystalline Solids</i> , 2003 , 321, 210-216	3.9	20
98	Controlling fluorescence lifetime of rare-earth element in amorphous inorganic solids via very small compositional adjustments. <i>Journal of Applied Physics</i> , 2005 , 98, 023523	2.5	20
97	Effect of Silver Ion-Exchange on the Precipitation of Lead Sulfide Quantum Dots in Glasses. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2880-2884	3.8	19
96	Visible light emission from selenium color centers formed in silicate glasses. <i>Optical Materials</i> , 2012 , 34, 1231-1234	3.3	19
95	A low sintering temperature glass based on SiO ₂ -B ₂ O ₅ -ZnO-B ₂ O ₃ -R ₂ O system for white LEDs with high color rendering index. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 5186-5192	3.8	19
94	Energy Transfer Process for the Blue Up-Conversion in Calcium Aluminate Glasses Doped with Tm ³⁺ and Nd ³⁺ . <i>Journal of the American Ceramic Society</i> , 2004 , 84, 348-52	3.8	19
93	Spectroscopic Properties and Local Structure of Eu ³⁺ in Ge ₃₀ Ga ₂₀ As ₆ S ₆₂ (or CsCl) Glasses. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 286-290	3.8	19
92	Cross relaxation mechanism among Tm ³⁺ ions in Ge ₃₀ Ga ₂ As ₆ S ₆₂ glass. <i>Journal of Non-Crystalline Solids</i> , 2003 , 316, 302-308	3.9	19
91	Calcium-borosilicate glass-ceramics wastefoms to immobilize rare-earth oxide wastes from pyro-processing. <i>Journal of Nuclear Materials</i> , 2015 , 467, 224-228	3.3	17
90	CdS Quantum Dots in Glass: Modification of Photoluminescence by Silver Doping. <i>International Journal of Applied Glass Science</i> , 2011 , 2, 157-161	1.8	17

89	Solidification and recycling of incinerator bottom ash through the addition of colloidal silica (SiO ₂) solution. <i>Waste Management</i> , 2007 , 27, 1207-12	8.6	17
88	Mechanism of the Blue Up-Conversion in Tm ³⁺ /Nd ³⁺ -doped Calcium Aluminate Glasses. <i>Journal of the American Ceramic Society</i> , 2005 , 80, 1485-1490	3.8	17
87	Direct imaging of inhomogeneous distribution of Er ³⁺ ions in lead fluoride nanocrystals. <i>Journal of Non-Crystalline Solids</i> , 2013 , 365, 1-5	3.9	16
86	Emission properties and local structure of Tm ³⁺ in Ge ₃₀ Ga ₂₀ As ₈ S ₆₀ Br glass. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 1676-1680	3.9	16
85	Chemical characteristics of Dy ³⁺ bonds in Ge ₃₀ As ₈ S ₆₀ glass. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 1665-1669	3.9	16
84	Emission properties of Ho ³⁺ /Tb ³⁺ Co-doped in Ge ₃₀ Ga ₂₀ As ₈ S ₆₀ glass. <i>Journal of Applied Physics</i> , 2004 , 96, 4827-4832	2.5	16
83	Effect of Tb ³⁺ co-doping on the electron population densities of Tm ³⁺ in Ge ₃₀ As ₈ Ga ₂₀ S ₆₀ glasses. <i>Journal of Applied Physics</i> , 2000 , 88, 2515-2518	2.5	16
82	Pr ³⁺ /Er ³⁺ Codoped Ge-As-Ga-S Glasses as Dual-Wavelength Fiber-optic Amplifiers for 1.31 and 1.55 μ m Windows. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 1284-1286	3.8	15
81	Crossrelaxations between and multiphonon relaxation of near-infrared excited states of Pr ³⁺ ions in selenide glasses. <i>Chemical Physics Letters</i> , 2003 , 368, 625-629	2.5	15
80	Energy transfer and 1.48 μ m emission properties in chalcogenide glasses doped with Tm ³⁺ and Tb ³⁺ . <i>Journal of Non-Crystalline Solids</i> , 2003 , 331, 184-189	3.9	15
79	Direct Imaging of the Distribution of Nd ³⁺ Ions in Glasses Containing PbS Quantum Dots. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2074-2077	3.8	14
78	Infrared photoluminescence from lead sulfide quantum dots in glasses enriched in sulfur. <i>Journal of Non-Crystalline Solids</i> , 2014 , 391, 39-42	3.9	14
77	Infrared emission from Er ³⁺ /Y ³⁺ co-doped oxyfluoride glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2014 , 404, 37-42	3.9	14
76	Vitrite glass-ceramics wastefoms for immobilization of lanthanide wastes generated by pyro-processing. <i>Ceramics International</i> , 2015 , 41, 6132-6136	5.1	14
75	Compositional dependences on the mechanism of upconversion in Nd ³⁺ /Tm ³⁺ co-doped chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 2421-2423	3.9	14
74	New functional glasses containing semiconductor quantum dots. <i>Physica Scripta</i> , 2010 , T139, 014062	2.6	14
73	Chalcogenide glasses for infrared fiber optics. <i>Optical Engineering</i> , 1991 , 30, 470	1.1	14
72	Leaching behaviors and mechanisms of vitrified forms for the low-level radioactive solid wastes. <i>Journal of Hazardous Materials</i> , 2020 , 384, 121296	12.8	14

71	Lead sulfide quantum dots in glasses controlled by silver diffusion. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 921-924	3.9	13
70	Emission and local structure of rare-earth ions in chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 1358-1363	3.9	13
69	Effects of YF ₃ doping on the optical properties of Er ³⁺ ions in oxyfluoride glass-ceramics. <i>Journal of Luminescence</i> , 2014 , 153, 252-258	3.8	12
68	Compositional dependence of Se ²⁻ color center formation in silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2013 , 377, 70-73	3.9	12
67	Fluorescence and persistent spectral hole burning of Eu ³⁺ in Ge ₁₀ As ₁₀ Br glasses. <i>Journal of Luminescence</i> , 2002 , 99, 73-77	3.8	12
66	Phosphor-in-fluorescent-glasses for high color rendering white light emitting diodes. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2378-2381	3.8	11
65	Optical thermometry of Sm ³⁺ on laser-induced local heating for precipitation of PbS quantum dots in glasses. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3372-3376	3.8	11
64	Development, characterization and dissolution behavior of calcium-aluminoborate glass wastefoms to immobilize rare-earth oxides. <i>Scientific Reports</i> , 2018 , 8, 5320	4.9	11
63	Continuous-wave laser irradiation to form Cd _{1-x} Zn _x Se shell on CdSe QDs in silicate glasses. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 4555-4561	3.8	10
62	Lead sulfide quantum dots in glasses containing rare-earth ions. <i>Journal of Non-Crystalline Solids</i> , 2014 , 383, 173-175	3.9	10
61	Plasmon-Assisted Precipitation of PbS Quantum Dots in Glasses Containing Ag Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2420-2422	3.8	10
60	Up-conversion and photon avalanche in oxy-fluoride nano-structured glasses doped with Ho ³⁺ . <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 5325-5330	3.9	10
59	Nanocrystal Formation in Glasses Controlled by Rare Earth Ions. <i>International Journal of Applied Glass Science</i> , 2014 , 5, 104-113	1.8	9
58	Direct observation of Nd ³⁺ and Tm ³⁺ ion distributions in oxy-fluoride glass ceramics containing PbF ₂ nanocrystals. <i>Materials Characterization</i> , 2014 , 98, 228-232	3.9	9
57	Compositional dependence of the 1.3 μ m emission and energy transfer mechanism in Ge ₁₀ As ₁₀ S glasses doped with Pr ³⁺ . <i>Journal of Non-Crystalline Solids</i> , 1999 , 259, 31-38	3.9	9
56	Precipitation of PbS quantum dots in glasses by thermal diffusion of Ag ⁺ ions from silver pastes. <i>Journal of Non-Crystalline Solids</i> , 2014 , 387, 76-78	3.9	8
55	Midinfrared emission properties of Pr ³⁺ -doped chalcogenide glasses at cryogenic temperature. <i>Journal of Applied Physics</i> , 2003 , 93, 8970-8974	2.5	8
54	Energy Transfer and Population Inversion in Heavy Metal Oxide Glasses Doped with Tm ³⁺ and Tb ³⁺ . <i>Journal of the American Ceramic Society</i> , 2005 , 87, 1903-1906	3.8	8

53	Dual-band photoluminescence of lead selenide quantum dots doped oxyfluoride glass-ceramics containing BaF ₂ nanocrystals. <i>Journal of Non-Crystalline Solids</i> , 2014 , 385, 136-141	3.9	7
52	Compositional Dependence of CdSe Quantum Dot Formation on Silicate Host Glass Composition. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3868-3871	3.8	7
51	Luminescence Enhancement of CdS Quantum Dots in Glass by Ag ⁺ Ion Exchange. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1138-1142	3.8	7
50	Near-infrared photoluminescence of PbS QDs precipitated in the glass matrix. <i>Journal of the Ceramic Society of Japan</i> , 2008 , 116, 1071-1074	1	7
49	Second Harmonic Generation from Thermally Poled Ge-S Glass System. <i>Journal of the Ceramic Society of Japan</i> , 2005 , 113, 728-732		7
48	Excitation-wavelength- and size-dependent photo-darkening and photo-brightening of photoluminescence from PbS quantum dots in glasses. <i>Optical Materials Express</i> , 2019 , 9, 504	2.6	6
47	Band gap tuning of PbSe quantum dots by SrO addition in silicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2016 , 452, 40-44	3.9	6
46	Down-conversion in Tm ³⁺ /Yb ³⁺ doped glasses for multicrystalline silicon photo-voltaic module efficiency enhancement. <i>Journal of Non-Crystalline Solids</i> , 2014 , 383, 181-183	3.9	6
45	White upconversion luminescence generation from Ho ³⁺ singly doped chalcogenide glasses. <i>Materials Research Bulletin</i> , 2014 , 55, 102-105	5.1	6
44	980nm upconversion luminescence from oxy-fluoride glasses and glass-ceramics doped with Yb ³⁺ and Er ³⁺ ions. <i>Journal of Non-Crystalline Solids</i> , 2014 , 383, 188-191	3.9	6
43	Electric field-assisted Ag ⁺ migration for PbS quantum dot formation in glasses. <i>Journal of Non-Crystalline Solids</i> , 2013 , 377, 254-256	3.9	6
42	Formation of channels containing lead sulfide quantum dots using continuous-wave laser for active planar waveguides in glasses. <i>Optical Materials Express</i> , 2017 , 7, 281	2.6	6
41	Up-conversion fluorescence and low-temperature emission in Er ³⁺ -doped GeGaS ₂ Br glasses. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 2393-2396	3.9	6
40	Populations and Emission Properties of the 5I ₆ and 5I ₇ Levels in Ho ³⁺ Doped into PbO-Bi ₂ O ₃ -CaO Glasses. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 938-941	3.8	6
39	Magnesium potassium phosphate cements to immobilize radioactive concrete wastes generated by decommissioning of nuclear power plants. <i>Nuclear Engineering and Technology</i> , 2021 , 53, 2261-2267	2.6	6
38	Tuning the band gap of PbSe quantum dots in glasses by TiO ₂ doping. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 7013-7017	2.1	5
37	Novel nano-structured glasses containing semiconductor quantum dots: controlling the photoluminescence with phonons and photons. <i>Journal of Materials Science: Materials in Electronics</i> , 2009 , 20, 282-285	2.1	5
36	Quantitative Identification of Phonon Modes Controlling the Multiphonon Relaxation in Heavy-Metal Oxide Glasses. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1381-1383	3.8	5

35	Optimized combination of Ho ³⁺ and sulfide glass for U-band fiber-optic amplifiers. <i>Chemical Physics Letters</i> , 2004 , 384, 16-19	2.5	5
34	Sensitizing effect of Yb ³⁺ on near-infrared fluorescence emission of Cr ⁴⁺ -doped calcium aluminate glasses. <i>Journal of Materials Research</i> , 2000 , 15, 278-281	2.5	5
33	The effect of rare earth on color conversion properties of CdSe quantum dot embedded silicate glasses for white LED. <i>Optical Materials</i> , 2021 , 111, 110545	3.3	5
32	Compositional dependency of upconversion luminescence of Nd ³⁺ doped GeGaSAsBr chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2014 , 406, 27-30	3.9	4
31	Evolution of Strong Red Upconversion Luminescence in Er ³⁺ -Containing Oxy-Fluoride Glass and Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 789-792	3.8	4
30	Controlled Precipitation of Lead Sulfide Quantum Dots in Glasses Using the Femtosecond Laser Pulses. <i>Journal of the American Ceramic Society</i> , 2009 , 93, 1221	3.8	4
29	Mechanism of the room-temperature persistent spectral hole burning in borate glasses doped with Eu ³⁺ . <i>Journal of Applied Physics</i> , 2002 , 92, 1274-1279	2.5	4
28	Structure analysis of vitusite glass/ceramic waste forms using extended X-ray absorption fine structures. <i>Ceramics International</i> , 2017 , 43, 4687-4691	5.1	3
27	Role of Nd ³⁺ ions on the nucleation and growth of PbS quantum dots (QDs) in silicate glasses. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2879-2884	3.8	3
26	H ₂ O influence evaluating and mid-IR fluorescence quenching in Tm ³⁺ -doped GeGaSAsBr chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 2403-2408	3.9	3
25	Photo-Induced Effect in Heavy Metal Oxide Glasses. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 913-914	3.8	3
24	Enhancement in lifetimes of the Pr ³⁺ : 1.6 μ m emission in Ge-Ga-As-Se glasses with CsBr addition. <i>Journal of Materials Science Letters</i> , 2003 , 22, 795-798		3
23	CdSe quantum dot embedded glasses with dual emissions for wide color gamut white LED. <i>International Journal of Applied Glass Science</i> , 2021 , 12, 415-423	1.8	3
22	Compositional dependency of Cd-S-Se quantum dots within silicate glass on color conversion for a white LED. <i>Journal of the American Ceramic Society</i> , 2018 , 102, 1703	3.8	3
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20	Electric field-assisted precipitation of lead selenide quantum dots in borosilicate glass. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 4447-4451	3.8	2
19	Preparation of photostable near-infrared luminescent glass with quantum dot-layered double hydroxide composites. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8624-8627	7.1	2
18	Formation of core/shell PbS/Na ₂ SrSi ₂ O ₆ nanocrystals in glass. <i>Optical Materials Express</i> , 2016 , 6, 5782.6		2

17	Atom Probe Tomographic Imaging of PbS Quantum Dot Formation on Neodymium Clusters in Silicate Glasses. <i>Scientific Reports</i> , 2019 , 9, 10029	4.9	2
16	Band Gap and Diameter Modulation of Quantum Dots in Glasses. <i>International Journal of Applied Glass Science</i> , 2015 , 6, 329-338	1.8	2
15	Evaluation of thermal stability in deep geological repository and nuclear criticality safety of spent nuclear fuel vitrified in iron phosphate glass. <i>Annals of Nuclear Energy</i> , 2020 , 136, 107055	1.7	2
14	Nd ³⁺ sensitized blue upconversion luminescence in Nd ³⁺ /Pr ³⁺ co-doped GeO ₂ -BaF ₂ -CsBr chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 2406-2408	3.9	1
13	Optical properties of Pr ³⁺ in selenide glasses modified with CsI. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 1350-1353	3.9	1
12	Local atomic structure of uranium ions and dissolution behavior of iron phosphate glass hosts to immobilize spent nuclear fuel. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021 , 328, 701-706	1.5	1
11	Identification of core/shell structure in Cd-Zn-Se QDs inside silicate glasses using 3D elemental distribution analysis. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 294-301	3.8	1
10	Optoelectronics 2021 , 735-749		1
9	Co/PMS based sulfate-radical treatment for effective mineralization of spent ion exchange resin. <i>Chemosphere</i> , 2022 , 287, 132351	8.4	1
8	Laser precipitation of PbS quantum dots in glass rods to achieve broadband near-infrared emission. <i>International Journal of Applied Glass Science</i> , 2020 , 11, 272-276	1.8	0
7	Direct Precipitation of CdS Nanocrystals in Glass by Ultrafast Laser Pulses. <i>Materials Letters</i> , 2021 , 1309743	3.3	0
6	Substrate-Dependent Growth Mode Control of MoS ₂ Monolayers: Implications for Hydrogen Evolution and Field-Effect Transistors. <i>ACS Applied Nano Materials</i> , 2022 , 5, 4336-4342	5.6	0
5	Optical properties of Pb _{1-x} Sn _x Se quantum dots (QDs) in silicate glasses dictated by GeO ₂ concentrations. <i>Journal of Non-Crystalline Solids</i> , 2018 , 482, 177-182	3.9	
4	Enhancement of PbSe QDs formation with B ₂ O ₃ content in borosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2018 , 480, 107-110	3.9	
3	Continuous-Wave Laser Patterning of Three-Dimensional Microstructure in Glasses Containing Silver Nanoparticles. <i>International Journal of Applied Glass Science</i> , 2013 , 4, 5-8	1.8	
2	Reply to the comments on "Continuous-wave laser irradiation to form Cd _{1-x} Zn _x Se shell on CdSe QDs in silicate glasses" <i>Journal of the American Ceramic Society</i> , 2020 , 103, 695-695	3.8	
1	Light-triggered shell formation on CdSe quantum dots in glasses. <i>Journal of the Korean Ceramic Society</i> , 2022 , 59, 70-75	2.2	