

# Jong Heo

## 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.

160  
papers

3,597  
citations

30  
h-index

52  
g-index

166  
ext. papers

3,916  
ext. citations

3.6  
avg, IF

5.52  
L-index

#	Paper	IF	Citations
160	Co/PMS based sulfate-radical treatment for effective mineralization of spent ion exchange resin. <i>Chemosphere</i> , <b>2022</b> , 287, 132351	8.4	1
159	Substrate-Dependent Growth Mode Control of MoS <sub>2</sub> Monolayers: Implications for Hydrogen Evolution and Field-Effect Transistors. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 4336-4342	5.6	0
158	Light-triggered shell formation on CdSe quantum dots in glasses. <i>Journal of the Korean Ceramic Society</i> , <b>2022</b> , 59, 70-75	2.2	
157	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> , <b>2021</b> , 328, 701-706	1.5	1
156	Magnesium potassium phosphate cements to immobilize radioactive concrete wastes generated by decommissioning of nuclear power plants. <i>Nuclear Engineering and Technology</i> , <b>2021</b> , 53, 2261-2267	2.6	6
155	The effect of rare earth on color conversion properties of CdSe quantum dot embedded silicate glasses for white LED. <i>Optical Materials</i> , <b>2021</b> , 111, 110545	3.3	5
154	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> , <b>2021</b> , 104, 294-301	3.8	1
153	CdSe quantum dot embedded glasses with dual emissions for wide color gamut white LED. <i>International Journal of Applied Glass Science</i> , <b>2021</b> , 12, 415-423	1.8	3
152	<i>Optoelectronics</i> <b>2021</b> , 735-749		1
151	Direct Precipitation of CdS Nanocrystals in Glass by Ultrafast Laser Pulses. <i>Materials Letters</i> , <b>2021</b> , 1309743	3.3	0
150	Laser precipitation of PbS quantum dots in glass rods to achieve broadband near-infrared emission. <i>International Journal of Applied Glass Science</i> , <b>2020</b> , 11, 272-276	1.8	0
149	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> , <b>2020</b> , 136, 107055	1.7	2
148	Leaching behaviors and mechanisms of vitrified forms for the low-level radioactive solid wastes. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121296	12.8	14
147	Reply to the comments on "Continuous-wave laser irradiation to form Cd <sub>1-x</sub> Zn <sub>x</sub> Se shell on CdSe QDs in silicate glasses" <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 695-695	3.8	
146	Excitation-wavelength- and size-dependent photo-darkening and photo-brightening of photoluminescence from PbS quantum dots in glasses. <i>Optical Materials Express</i> , <b>2019</b> , 9, 504	2.6	6
145	Continuous-wave laser irradiation to form Cd <sub>1-x</sub> Zn <sub>x</sub> Se shell on CdSe QDs in silicate glasses. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 4555-4561	3.8	10
144	Intense up-conversion emission from Er <sup>3+</sup> /Yb <sup>3+</sup> ion co-doped transparent oxyfluoride glass-ceramics containing Y <sub>5</sub> O <sub>4</sub> F <sub>7</sub> nanorods for optical thermometry. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 6134-6143	7.1	21

143	Atom Probe Tomographic Imaging of PbS Quantum Dot Formation on Neodymium Clusters in Silicate Glasses. <i>Scientific Reports</i> , <b>2019</b> , 9, 10029	4.9	2
142	Optical thermometry of Sm <sup>3+</sup> on laser-induced local heating for precipitation of PbS quantum dots in glasses. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 3372-3376	3.8	11
141	Optical properties of Pb <sup>188</sup> Se quantum dots (QDs) in silicate glasses dictated by GeO <sub>2</sub> concentrations. <i>Journal of Non-Crystalline Solids</i> , <b>2018</b> , 482, 177-182	3.9	
140	Electric field-assisted precipitation of lead selenide quantum dots in borosilicate glass. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 4447-4451	3.8	2
139	Enhancement of PbSe QDs formation with B <sub>2</sub> O <sub>3</sub> content in borosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2018</b> , 480, 107-110	3.9	
138	Development, characterization and dissolution behavior of calcium-aluminoborate glass wasteforms to immobilize rare-earth oxides. <i>Scientific Reports</i> , <b>2018</b> , 8, 5320	4.9	11
137	Phosphor-in-glass with Nd-doped glass for a white LED with a wide color gamut. <i>Optics Letters</i> , <b>2018</b> , 43, 627-630	3	25
136	1.2 h persistent luminescence of Ho <sup>3+</sup> in LaAlO <sub>3</sub> and LaGaO <sub>3</sub> perovskites. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 11374-11383	7.1	22
135	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> , <b>2018</b> , 102, 1703	3.8	3
134	Structure analysis of vitusite glass/ceramic waste forms using extended X-ray absorption fine structures. <i>Ceramics International</i> , <b>2017</b> , 43, 4687-4691	5.1	3
133	Surface Passivation of CdSe Quantum Dots in All Inorganic Amorphous Solid by Forming CdZnSe Shell. <i>Scientific Reports</i> , <b>2017</b> , 7, 42359	4.9	28
132	Role of Nd <sup>3+</sup> ions on the nucleation and growth of PbS quantum dots (QDs) in silicate glasses. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 2879-2884	3.8	3
131	Immobilization and bonding scheme of radioactive iodine-129 in silver tellurite glass. <i>Journal of Nuclear Materials</i> , <b>2017</b> , 492, 239-243	3.3	20
130	Phosphor-in-fluorescent-glasses for high color rendering white light emitting diodes. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 2378-2381	3.8	11
129	Ceramic Immobilization Options for Technetium. <i>MRS Advances</i> , <b>2017</b> , 2, 753-758	0.7	2
128	Tuning the band gap of PbSe quantum dots in glasses by TiO doping. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 7013-7017	2.1	5
127	A low sintering temperature glass based on SiO <sub>2</sub> B <sub>2</sub> O <sub>5</sub> ZnO/B <sub>2</sub> O <sub>3</sub> B <sub>2</sub> O system for white LEDs with high color rendering index. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 5186-5192	3.8	19
126	Formation of channels containing lead sulfide quantum dots using continuous-wave laser for active planar waveguides in glasses. <i>Optical Materials Express</i> , <b>2017</b> , 7, 281	2.6	6

125	Mid-infrared luminescence from Sn-modified PbSe quantum dots in silicate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2016</b> , 431, 93-96	3.9	21
124	Germanosilicate glasses containing PbSe quantum dots for mid-infrared luminescence. <i>Journal of Non-Crystalline Solids</i> , <b>2016</b> , 431, 79-82	3.9	24
123	Band gap tuning of PbSe quantum dots by SrO addition in silicate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2016</b> , 452, 40-44	3.9	6
122	Preparation of photostable near-infrared luminescent glass with quantum dot-layered double hydroxide composites. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 8624-8627	7.1	2
121	Formation of core/shell PbS/Na <sub>2</sub> SrSi <sub>2</sub> O <sub>6</sub> nanocrystals in glass. <i>Optical Materials Express</i> , <b>2016</b> , 6, 5782.6		2
120	A complete inorganic colour converter based on quantum-dot-embedded silicate glasses for white light-emitting-diodes. <i>Chemical Communications</i> , <b>2016</b> , 52, 3564-7	5.8	22
119	Direct Imaging of the Distribution of Nd <sup>3+</sup> Ions in Glasses Containing PbS Quantum Dots. <i>Journal of the American Ceramic Society</i> , <b>2015</b> , 98, 2074-2077	3.8	14
118	Phosphor in glass with Eu <sup>3+</sup> and Pr <sup>3+</sup> -doped silicate glasses for LED color conversion. <i>Optical Materials</i> , <b>2015</b> , 41, 67-70	3.3	54
117	Band Gap and Diameter Modulation of Quantum Dots in Glasses. <i>International Journal of Applied Glass Science</i> , <b>2015</b> , 6, 329-338	1.8	2
116	Calcium-borosilicate glass-ceramics wastefoms to immobilize rare-earth oxide wastes from pyro-processing. <i>Journal of Nuclear Materials</i> , <b>2015</b> , 467, 224-228	3.3	17
115	Vitusite glass-ceramics wastefoms for immobilization of lanthanide wastes generated by pyro-processing. <i>Ceramics International</i> , <b>2015</b> , 41, 6132-6136	5.1	14
114	Stable and Color-Tailorable White Light from Blue LEDs Using Color-Converting Phosphor Glass Composites. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 342-345	3.8	41
113	Nanocrystal Formation in Glasses Controlled by Rare Earth Ions. <i>International Journal of Applied Glass Science</i> , <b>2014</b> , 5, 104-113	1.8	9
112	Infrared photoluminescence from lead sulfide quantum dots in glasses enriched in sulfur. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 391, 39-42	3.9	14
111	Down-conversion in Tm <sup>3+</sup> /Yb <sup>3+</sup> doped glasses for multicrystalline silicon photo-voltaic module efficiency enhancement. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 383, 181-183	3.9	6
110	Compositional dependency of upconversion luminescence of Nd <sup>3+</sup> doped Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>2</sub> Br chcolhalide glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 406, 27-30	3.9	4
109	Infrared emission from Er <sup>3+</sup> /Y <sup>3+</sup> co-doped oxyfluoride glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 404, 37-42	3.9	14
108	Effects of YF <sub>3</sub> doping on the optical properties of Er <sup>3+</sup> ions in oxyfluoride glassceramics. <i>Journal of Luminescence</i> , <b>2014</b> , 153, 252-258	3.8	12

107	White upconversion luminescence generation from Ho <sup>3+</sup> singly doped chalcogenide glasses. <i>Materials Research Bulletin</i> , <b>2014</b> , 55, 102-105	5.1	6
106	Precipitation of PbS quantum dots in glasses by thermal diffusion of Ag <sup>+</sup> ions from silver pastes. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 387, 76-78	3.9	8
105	980nm upconversion luminescence from oxy-fluoride glasses and glass-ceramics doped with Yb <sup>3+</sup> and Er <sup>3+</sup> ions. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 383, 188-191	3.9	6
104	Evolution of Strong Red Upconversion Luminescence in Er <sup>3+</sup> -Containing Oxy-Fluoride Glass and Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 789-792	3.8	4
103	Dual-band photoluminescence of lead selenide quantum dots doped oxyfluoride glass-ceramics containing BaF <sub>2</sub> nanocrystals. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 385, 136-141	3.9	7
102	Lead sulfide quantum dots in glasses containing rare-earth ions. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 383, 173-175	3.9	10
101	Direct observation of Nd <sup>3+</sup> and Tm <sup>3+</sup> ion distributions in oxy-fluoride glass ceramics containing PbF <sub>2</sub> nanocrystals. <i>Materials Characterization</i> , <b>2014</b> , 98, 228-232	3.9	9
100	Control of chromaticity by phosphor in glasses with low temperature sintered silicate glasses for LED applications. <i>Optics Letters</i> , <b>2014</b> , 39, 4084-7	3	78
99	Plasmon-Assisted Precipitation of PbS Quantum Dots in Glasses Containing Ag Nanoparticles. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 2420-2422	3.8	10
98	Lead Chalcogenide Quantum Dot-Doped Glasses for Photonic Devices. <i>International Journal of Applied Glass Science</i> , <b>2013</b> , 4, 163-173	1.8	30
97	Electric field-assisted Ag <sup>+</sup> migration for PbS quantum dot formation in glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2013</b> , 377, 254-256	3.9	6
96	Compositional Dependence of CdSe Quantum Dot Formation on Silicate Host Glass Composition. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 3868-3871	3.8	7
95	Compositional dependence of Se <sup>2+</sup> color center formation in silicate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2013</b> , 377, 70-73	3.9	12
94	Luminescence Enhancement of CdS Quantum Dots in Glass by Ag <sup>+</sup> Ion Exchange. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 1138-1142	3.8	7
93	Direct imaging of inhomogeneous distribution of Er <sup>3+</sup> ions in lead fluoride nanocrystals. <i>Journal of Non-Crystalline Solids</i> , <b>2013</b> , 365, 1-5	3.9	16
92	Continuous-Wave Laser Patterning of Three-Dimensional Microstructure in Glasses Containing Silver Nanoparticles. <i>International Journal of Applied Glass Science</i> , <b>2013</b> , 4, 5-8	1.8	
91	Electron Energy Loss Spectroscopy Analysis on the Preferential Incorporation of Er <sup>3+</sup> Ions into Fluoride Nanocrystals in Oxyfluoride Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 2100-2102	3.8	33
90	Effect of Silver Ion-Exchange on the Precipitation of Lead Sulfide Quantum Dots in Glasses. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 2880-2884	3.8	19

89	Visible light emission from selenium color centers formed in silicate glasses. <i>Optical Materials</i> , <b>2012</b> , 34, 1231-1234	3.3	19
88	Phosphor in glasses with Pb-free silicate glass powders as robust color-converting materials for white LED applications. <i>Optics Letters</i> , <b>2012</b> , 37, 3276-8	3	149
87	Lead sulfide quantum dots in glasses controlled by silver diffusion. <i>Journal of Non-Crystalline Solids</i> , <b>2012</b> , 358, 921-924	3.9	13
86	Mechanism of the enhancement of mid-infrared emission from GeS <sub>2</sub> -Ga <sub>2</sub> S <sub>3</sub> chalcogenide glass-ceramics doped with Tm <sup>3+</sup> . <i>Applied Physics Letters</i> , <b>2012</b> , 100, 231910	3.4	48
85	Influence of silver nanoclusters on formation of PbS quantum dots in glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2011</b> , 357, 2428-2430	3.9	21
84	Compositional dependences on the mechanism of upconversion in Nd <sup>3+</sup> /Tm <sup>3+</sup> co-doped chalcohalide glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2011</b> , 357, 2421-2423	3.9	14
83	H <sub>2</sub> O influence evaluating and mid-IR fluorescence quenching in Tm <sup>3+</sup> -doped GeGaSCsI chalcohalide glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2011</b> , 357, 2403-2408	3.9	3
82	CdS Quantum Dots in Glass: Modification of Photoluminescence by Silver Doping. <i>International Journal of Applied Glass Science</i> , <b>2011</b> , 2, 157-161	1.8	17
81	Photo-Induced Effect in Heavy Metal Oxide Glasses. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 913-914	3.8	3
80	Local Heating from Silver Nanoparticles and Its Effect on the Er <sup>3+</sup> Upconversion in Oxyfluoride Glasses. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 3349-3353	3.8	23
79	Lead Sulfide Quantum Dots Formation in Glasses Controlled by Erbium Ions. <i>Journal of the American Ceramic Society</i> , <b>2010</b> , 93, 3092-3094	3.8	24
78	New functional glasses containing semiconductor quantum dots. <i>Physica Scripta</i> , <b>2010</b> , T139, 014062	2.6	14
77	Up-conversion fluorescence and low-temperature emission in Er <sup>3+</sup> -doped GeGaSCsBr glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2010</b> , 356, 2393-2396	3.9	6
76	Nd <sup>3+</sup> sensitized blue upconversion luminescence in Nd <sup>3+</sup> /Pr <sup>3+</sup> co-doped GeGaSCsBr chalcohalide glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2010</b> , 356, 2406-2408	3.9	1
75	Optical properties of CdSe quantum dots in silicate glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2010</b> , 356, 2299-2301	3.9	36
74	Novel nano-structured glasses containing semiconductor quantum dots: controlling the photoluminescence with phonons and photons. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2009</b> , 20, 282-285	2.1	5
73	Controlled Precipitation of Lead Sulfide Quantum Dots in Glasses Using the Femtosecond Laser Pulses. <i>Journal of the American Ceramic Society</i> , <b>2009</b> , 93, 1221	3.8	4
72	Optical properties of PbSe quantum dots doped in borosilicate glass. <i>Journal of Non-Crystalline Solids</i> , <b>2009</b> , 355, 1897-1899	3.9	25

71	Absorption and photoluminescence of PbS QDs in glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2009</b> , 355, 1880-1883	3.9	23
70	Optical modulation of near-infrared photoluminescence from lead sulfide quantum dots in glasses. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 021103	3.4	20
69	Photoluminescence of PbS quantum dots embedded in glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 618-623	3.9	64
68	Local structure and its effect on the oscillator strengths and emission properties of Ho <sup>3+</sup> in chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 3107-3112	3.9	21
67	Dy <sup>3+</sup> doped Ge-Ga-Sb-Se glasses and optical fibers for the mid-IR gain media. <i>Journal of the Ceramic Society of Japan</i> , <b>2008</b> , 116, 1087-1091	1	33
66	Near-infrared photoluminescence of PbS QDs precipitated in the glass matrix. <i>Journal of the Ceramic Society of Japan</i> , <b>2008</b> , 116, 1071-1074	1	7
65	Laser-induced blue-shift of the photoluminescence from PbS quantum dots in glasses. <i>Chemical Physics Letters</i> , <b>2008</b> , 452, 281-284	2.5	21
64	Populations and Emission Properties of the 5I6 and 5I7 Levels in Ho <sup>3+</sup> Doped into PbO-Bi <sub>2</sub> O <sub>3</sub> -Ga <sub>2</sub> O <sub>3</sub> Glasses. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 938-941	3.8	6
63	Solidification and recycling of incinerator bottom ash through the addition of colloidal silica (SiO <sub>2</sub> ) solution. <i>Waste Management</i> , <b>2007</b> , 27, 1207-12	8.6	17
62	Generation of white light from oxy-fluoride nano-glass doped with Ho <sup>3+</sup> , Tm <sup>3+</sup> and Yb <sup>3+</sup> . <i>Materials Letters</i> , <b>2007</b> , 61, 3751-3754	3.3	47
61	Pbs quantum-dots in glass matrix for universal fiber-optic amplifier. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2007</b> , 18, 135-139	2.1	27
60	EXAFS investigation on the structural environment of Tm <sup>3+</sup> in Ge-Ga-Sb-Br glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 1251-1254	3.9	21
59	Optical properties of Pr <sup>3+</sup> in selenide glasses modified with CsI. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 1350-1353	3.9	1
58	Emission and local structure of rare-earth ions in chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 1358-1363	3.9	13
57	Emission properties and local structure of Tm <sup>3+</sup> in Ge-Ga-Sb-Br glass. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 1676-1680	3.9	16
56	Chemical characteristics of Dy <sup>3+</sup> bonds in Ge-Ga-Sb glass. <i>Journal of Non-Crystalline Solids</i> , <b>2007</b> , 353, 1665-1669	3.9	16
55	Temperature-dependent brightening and darkening of photoluminescence from PbS quantum dots in glasses. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 241111	3.4	33
54	Effect of CsBr addition on the emission properties of Tm <sup>3+</sup> ion in Ge-Ga-S glass. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 2323-2330	2.5	21

53	Energy transfer processes and Ho <sup>3+</sup> : I55 level population dynamics in chalcogenide glasses. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	30
52	Ge and Ga K-edge EXAFS analyses on the structure of Ge <sub>30</sub> Ga <sub>2</sub> As <sub>8</sub> S <sub>60</sub> Br glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 423-428	3.9	37
51	Up-conversion and photon avalanche in oxy-fluoride nano-structured glasses doped with Ho <sup>3+</sup> . <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 5325-5330	3.9	10
50	Crystallization and local environment of rare-earth ions in oxy-fluoride nanostructured glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2005</b> , 351, 2317-2323	3.9	22
49	Second Harmonic Generation from Thermally Poled Ge-S Glass System. <i>Journal of the Ceramic Society of Japan</i> , <b>2005</b> , 113, 728-732		7
48	Extreme hypersensitivity observed from 6H <sub>15/2</sub> ←6F <sub>11/2</sub> transition of Dy <sup>3+</sup> in inorganic noncrystalline solids. <i>Chemical Physics Letters</i> , <b>2005</b> , 403, 29-34	2.5	21
47	Mechanism of the Blue Up-Conversion in Tm <sup>3+</sup> /Nd <sup>3+</sup> -doped Calcium Aluminate Glasses. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 80, 1485-1490	3.8	17
46	Energy Transfer and Population Inversion in Heavy Metal Oxide Glasses Doped with Tm <sup>3+</sup> and Tb <sup>3+</sup> . <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 87, 1903-1906	3.8	8
45	1.48- $\mu$ m emission properties and energy transfer between Tm <sup>3+</sup> and Ho <sup>3+</sup> +Tb <sup>3+</sup> in Ge <sub>30</sub> Ga <sub>2</sub> As <sub>8</sub> S <sub>60</sub> Br glasses. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 083542	2.5	35
44	Controlling fluorescence lifetime of rare-earth element in amorphous inorganic solids via very small compositional adjustments. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 023523	2.5	20
43	1.6- $\mu$ m emission and gain properties of Ho <sup>3+</sup> in selenide and chalcogenide glasses. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 113510	2.5	26
42	Emission properties of Ho <sup>3+</sup> +Tb <sup>3+</sup> Co-doped in Ge <sub>30</sub> Ga <sub>2</sub> As <sub>8</sub> S <sub>60</sub> glass. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 4827-4832	2.5	16
41	2.0 $\mu$ m Emission Properties and Energy Transfer between Ho <sup>3+</sup> and Tm <sup>3+</sup> in PbO:Bi <sub>2</sub> O <sub>3</sub> :CaO Glasses. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 787-791	3.8	47
40	Pr <sup>3+</sup> /Er <sup>3+</sup> Codoped Ge-As-Ga-S Glasses as Dual-Wavelength Fiber-optic Amplifiers for 1.31 and 1.55 $\mu$ m Windows. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 1284-1286	3.8	15
39	Energy Transfer Process for the Blue Up-Conversion in Calcium Aluminate Glasses Doped with Tm <sup>3+</sup> and Nd <sup>3+</sup> . <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 84, 348-52	3.8	19
38	Quantitative Identification of Phonon Modes Controlling the Multiphonon Relaxation in Heavy-Metal Oxide Glasses. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 87, 1381-1383	3.8	5
37	Spectroscopic Properties of and Energy Transfer in PbO:Bi <sub>2</sub> O <sub>3</sub> :CaO Glass Doped with Er <sub>2</sub> O <sub>3</sub> . <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 82, 2762-2768	3.8	67
36	Optimized combination of Ho <sup>3+</sup> and sulfide glass for U-band fiber-optic amplifiers. <i>Chemical Physics Letters</i> , <b>2004</b> , 384, 16-19	2.5	5



35	Enhancement in lifetimes of the Pr <sup>3+</sup> : 1.6 $\mu$ m emission in Ge-Ga-As-Se glasses with CsBr addition. <i>Journal of Materials Science Letters</i> , <b>2003</b> , 22, 795-798		3
34	Crossrelaxations between and multiphonon relaxation of near-infrared excited states of Pr <sup>3+</sup> ions in selenide glasses. <i>Chemical Physics Letters</i> , <b>2003</b> , 368, 625-629	2.5	15
33	Spectroscopic Properties and Local Structure of Eu <sup>3+</sup> in GeGaAsBr (or CsCl) Glasses. <i>Journal of the American Ceramic Society</i> , <b>2003</b> , 86, 286-290	3.8	19
32	Energy transfer and 1.48 $\mu$ m emission properties in chalcogenide glasses doped with Tm <sup>3+</sup> and Tb <sup>3+</sup> . <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 331, 184-189	3.9	15
31	Cross relaxation mechanism among Tm <sup>3+</sup> ions in Ge <sub>30</sub> Ga <sub>2</sub> As <sub>6</sub> S <sub>62</sub> glass. <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 316, 302-308	3.9	19
30	1.48 $\mu$ m emission properties and the cross-relaxation mechanism in chalcogenide glass doped with Tm <sup>3+</sup> . <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 321, 210-216	3.9	20
29	Rare-earth doped chalcogenide glasses for fiber-optic amplifiers. <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 326-327, 410-415	3.9	23
28	Analysis of cross relaxation between Tm <sup>3+</sup> ions in PbO-Bi <sub>2</sub> O <sub>3</sub> -Ga <sub>2</sub> O <sub>3</sub> -GeO <sub>2</sub> glass. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 2817-2820	2.5	29
27	Midinfrared emission properties of Pr <sup>3+</sup> -doped chalcogenide glasses at cryogenic temperature. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 8970-8974	2.5	8
26	Emission properties of PbO-Bi <sub>2</sub> O <sub>3</sub> -Ga <sub>2</sub> O <sub>3</sub> -GeO <sub>2</sub> glasses doped with Tm <sup>3+</sup> and Ho <sup>3+</sup> . <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 9441-9445	2.5	57
25	Vitrification of fly ash from municipal solid waste incinerator. <i>Journal of Hazardous Materials</i> , <b>2002</b> , 91, 83-93	12.8	199
24	Fluorescence and persistent spectral hole burning of Eu <sup>3+</sup> in GeGaAsBr glasses. <i>Journal of Luminescence</i> , <b>2002</b> , 99, 73-77	3.8	12
23	Mechanism of the room-temperature persistent spectral hole burning in borate glasses doped with Eu <sup>3+</sup> . <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 1274-1279	2.5	4
22	Energy transfer between Er <sup>3+</sup> and Pr <sup>3+</sup> in chalcogenide glasses for dual-wavelength fiber-optic amplifiers. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 9072-9077	2.5	21
21	Optimization of Dy-doped GeGaAsBr glass composition and its 1.31 $\mu$ m emission properties. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 298, 153-159	3.9	22
20	Room temperature persistent spectral hole burning in x-ray irradiated Eu <sup>3+</sup> -doped borate glasses. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 326-328	3.4	22
19	Enhancement of the 1.31- $\mu$ m emission properties of Dy <sup>3+</sup> -doped GeGaAs glasses with the addition of alkali halides. <i>Journal of Materials Research</i> , <b>2001</b> , 16, 1318-1324	2.5	41
18	1.6 $\mu$ m emission from Pr <sup>3+</sup> : (3F <sub>3</sub> ,3F <sub>4</sub> )- $\rightarrow$ H <sub>4</sub> transition in Pr <sup>3+</sup> - and Pr <sup>3+</sup> /Er <sup>3+</sup> -doped selenide glasses. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 1249-1251	3.4	74

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16	Modification of the local phonon modes and electron-phonon coupling strengths in Dy <sup>3+</sup> -doped sulfide glasses for efficient 1.3 $\mu$ m amplification. <i>Chemical Physics Letters</i> , <b>2000</b> , 317, 637-641	2.5	36
15	Effect of Tb <sup>3+</sup> co-doping on the electron population densities of Tm <sup>3+</sup> in Ge <sub>15</sub> As <sub>15</sub> Te <sub>70</sub> glasses. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 2515-2518	2.5	16
14	Sensitizing effect of Yb <sup>3+</sup> on near-infrared fluorescence emission of Cr <sup>4+</sup> -doped calcium aluminate glasses. <i>Journal of Materials Research</i> , <b>2000</b> , 15, 278-281	2.5	5
13	Emission properties of the Er <sup>3+</sup> :4I <sub>11/2</sub> -4I <sub>13/2</sub> transition in Er <sup>3+</sup> - and Er <sup>3+</sup> /Tm <sup>3+</sup> -doped Ge <sub>15</sub> As <sub>15</sub> Te <sub>70</sub> glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2000</b> , 278, 137-144	3.9	79
12	Comparative study of energy transfers from Er <sup>3+</sup> to Ce <sup>3+</sup> in tellurite and sulfide glasses under 980 nm excitation. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 3832	2.5	93
11	Compositional dependence of the 1.3 $\mu$ m emission and energy transfer mechanism in Ge <sub>15</sub> As <sub>15</sub> Te <sub>70</sub> glasses doped with Pr <sup>3+</sup> . <i>Journal of Non-Crystalline Solids</i> , <b>1999</b> , 259, 31-38	3.9	9
10	EXAFS spectroscopic study of PbO-Bi <sub>2</sub> O <sub>3</sub> -Ga <sub>2</sub> O <sub>3</sub> glasses. <i>Journal of Non-Crystalline Solids</i> , <b>1999</b> , 259, 205-211	3.9	28
9	Raman spectroscopic analysis on the solubility mechanism of La <sup>3+</sup> in GeS <sub>2</sub> -Ga <sub>2</sub> S <sub>3</sub> glasses. <i>Journal of Non-Crystalline Solids</i> , <b>1998</b> , 238, 115-123	3.9	144
8	1.3 $\mu$ m emission and multiphonon relaxation phenomena in PbO-Bi <sub>2</sub> O <sub>3</sub> -Ga <sub>2</sub> O <sub>3</sub> glasses doped with rare-earths. <i>Journal of Non-Crystalline Solids</i> , <b>1997</b> , 217, 199-207	3.9	115
7	Ga K-edge EXAFS analysis on the coordination of gallium in PbO-Ga <sub>2</sub> O <sub>3</sub> glasses. <i>Journal of Non-Crystalline Solids</i> , <b>1997</b> , 221, 199-207	3.9	37
6	Vibrational spectra and structure of heavy metal oxide glasses. <i>Journal of Non-Crystalline Solids</i> , <b>1996</b> , 202, 233-240	3.9	202
5	Emission characteristics of Ge <sub>15</sub> Ga <sub>15</sub> S <sub>70</sub> glasses doped with Tm <sup>3+</sup> /Ho <sup>3+</sup> . <i>Journal of Non-Crystalline Solids</i> , <b>1996</b> , 203, 176-181	3.9	30
4	Multiphonon and cross relaxation phenomena in Ge <sub>15</sub> As <sub>15</sub> (or Ga <sub>15</sub> )S <sub>70</sub> glasses doped with Tm <sup>3+</sup> . <i>Journal of Non-Crystalline Solids</i> , <b>1996</b> , 208, 29-35	3.9	65
3	Optical characteristics of rare-earth-doped sulphide glasses. <i>Journal of Materials Science Letters</i> , <b>1995</b> , 14, 1014-1016		47
2	Characterization and X-ray Photoelectron Spectroscopy Investigation of PbO-Bi <sub>2</sub> O <sub>3</sub> -Ga <sub>2</sub> O <sub>3</sub> Glasses. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 1285-1290	3.8	21
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