

Setsuhisa Tanabe

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.

277
papers

10,366
citations

53
h-index

89
g-index

303
ext. papers

11,743
ext. citations

3.7
avg, IF

6.75
L-index

#	Paper	IF	Citations
277	Blue Persistent Phosphor of YSiO ₂ N:Ce ³⁺ Developed by Codoping Sm ³⁺ or Tm ³⁺ Ions and Thermoluminescence Analysis of Their Trap Distributions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022 , 2100670	1.6	1
276	In Situ Growth Mechanism of CsPbX ₃ (X = Cl, Br, and I) Quantum Dots in an Amorphous Oxide Matrix. <i>Chemistry of Materials</i> , 2022 ,	9.6	1
275	Photoluminescent coordination polymer bulk glasses and laser-induced crystallization.. <i>Chemical Science</i> , 2022 , 13, 3281-3287	9.4	4
274	Effect of Glass Composition on Luminescence and Structure of CsPbBr Quantum Dots in an Amorphous Matrix.. <i>Materials</i> , 2022 , 15,	3.5	1
273	Time-resolved and temperature-dependent spectroscopy for blue luminescence of monoclinic YSiO ₂ N:Ce ³⁺ phosphor. <i>Journal of Luminescence</i> , 2022 , 118943	3.8	0
272	Multimodal deep red luminescent ratiometric thermometer of LaAlO ₃ doped with Mn ⁴⁺ . <i>Physica B: Condensed Matter</i> , 2021 , 413492	2.8	1
271	Development of Ce ³⁺ and Li ⁺ co-doped magnesium borate glass ceramics for optically stimulated luminescence dosimetry. <i>Journal of Luminescence</i> , 2021 , 232, 117847	3.8	5
270	Predicting the Optical Pressure Sensitivity of 2E -f4A2 Spin-Flip Transition in Cr ³⁺ -Doped Crystals. <i>Chemistry of Materials</i> , 2021 , 33, 3379-3385	9.6	11
269	Difference of Eu ³⁺ luminescent properties in YOCl and YOBr oxyhalide hosts. <i>Journal of Applied Physics</i> , 2021 , 129, 183104	2.5	2
268	Development of White Persistent Phosphors by Manipulating Lanthanide Ions in Gadolinium Gallium Garnets. <i>Advanced Photonics Research</i> , 2021 , 2, 2000102	1.9	6
267	Formation of PbCl-type AHF (A = Ca, Sr, Ba) with partial anion order at high pressure. <i>Dalton Transactions</i> , 2021 , 50, 8385-8391	4.3	1
266	Boltzmann Thermometry in Cr ³⁺ -Doped Ga ₂ O ₃ Polymorphs: The Structure Matters!. <i>Advanced Optical Materials</i> , 2021 , 9, 2100033	8.1	37
265	High-Pressure Photoluminescence Properties of Cr-Doped LaGaO Perovskites Modulated by Pressure-Induced Phase Transition. <i>Inorganic Chemistry</i> , 2021 ,	5.1	3
264	Hexagonal SrAlSiO:Eu,Dy transparent ceramics with tuneable persistent luminescence properties. <i>Dalton Transactions</i> , 2020 , 49, 16849-16859	4.3	4
263	Upconversion-mediated Boltzmann thermometry in double-layered Bi ₂ SiO ₅ :Yb ³⁺ ,Tm ³⁺ @SiO ₂ hollow nanoparticles. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 7828-7836	7.1	28
262	Large red-shift of luminescence from BaCN ₂ :Eu ²⁺ red phosphor under high pressure. <i>Applied Physics Express</i> , 2020 , 13, 042009	2.4	4
261	Effective Ratiometric Luminescent Thermal Sensor by Cr ³⁺ -Doped Mullite Bi ₂ Al ₄ O ₉ with Robust and Reliable Performances. <i>Advanced Optical Materials</i> , 2020 , 8, 2000124	8.1	57

260	Red luminescent Eu ²⁺ in K ₂ MgH ₄ and comparison with KMgH ₃ . <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5124-5130	7.1	4
259	Lanthanide-Doped Bi ₂ SiO ₅ @SiO ₂ Core/Shell Upconverting Nanoparticles for Stable Ratiometric Optical Thermometry. <i>ACS Applied Nano Materials</i> , 2020 , 3, 2594-2604	5.6	31
258	Ultrabroadband red luminescence of Mn in MgAlO peaking at 651 nm. <i>Dalton Transactions</i> , 2020 , 49, 5711-5721	4.3	14
257	Downconversion for 1 h luminescence in lanthanide and Yb ³⁺ co-doped phosphors 2020 , 415-441		1
256	Confined-Melting-Assisted Synthesis of Bismuth Silicate Glass-Ceramic Nanoparticles: Formation and Optical Thermometry Investigation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 55195-55204	9.5	17
255	Microsized Red Luminescent MgAlO:Mn Single-Crystal Phosphor Grown in Molten Salt for White LEDs. <i>Inorganic Chemistry</i> , 2020 , 59, 18374-18383	5.1	10
254	Pressure-induced variation of persistent luminescence characteristics in YAlGaO:Ce-M (M = Yb, and Cr) phosphors: opposite trend of trap depth for 4f and 3d metal ions. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 19502-19511	3.6	3
253	Pushing the Limit of Boltzmann Distribution in Cr-Doped CaHfO for Cryogenic Thermometry. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38325-38332	9.5	47
252	Ratiometric Luminescent Thermometers with a Customized Phase-Transition-Driven Fingerprint in Perovskite Oxides. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38937-38945	9.5	35
251	Lanthanide-Doped Bismuth-Based Fluoride Nanocrystalline Particles: Formation, Spectroscopic Investigation, and Chemical Stability. <i>Chemistry of Materials</i> , 2019 , 31, 8504-8514	9.6	18
250	Broadband near-infrared persistent luminescence of Ba[Mg ₂ Al ₂ N ₄] with Eu ²⁺ and Tm ³⁺ after red light charging. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1705-1712	7.1	22
249	Reply to the "Comment on "Spectroscopic properties and location of the Ce energy levels in YAlGaO and YGaO at ambient and high hydrostatic pressure"" by Y. Wang, M. Gb̄wacki, M. Berkowski, A. Kamińska and A. Suchocki, Phys. Chem. Chem. Phys., 2019, 21, DOI. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2212-2220	3.6	
248	Crystal structure analysis and evidence of mixed anion coordination at the Ce ³⁺ site in Y ₃ Al ₂ (Al,Si) ₃ (O,N) ₁₂ oxynitride garnet phosphor. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1330-1336	7.1	14
247	(INVITED) Review of luminescent properties of Ce ³⁺ -doped garnet phosphors: New insight into the effect of crystal and electronic structure. <i>Optical Materials: X</i> , 2019 , 1, 100018	1.7	29
246	Facile p/n control, and magnetic and thermoelectric properties of chromium selenides Cr _{2+x} Se ₃ . <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8269-8276	7.1	11
245	Uncovering the Origin of the Emitting States in Bi ³⁺ -Activated CaMO ₃ (M = Zr, Sn, Ti) Perovskites: Metal-To-Metal Charge Transfer Versus s/p Transitions. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14677-14688 ²⁴	3.8	
244	Synthesis, optical properties, and band structures of a series of layered mixed-anion compounds. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 16827-16832	2.1	1
243	Redshift and thermal quenching of Ce ³⁺ emission in (Gd, Y) ₃ (Al, Si) ₅ (O, N) ₁₂ oxynitride garnet phosphors. <i>Optical Materials</i> , 2019 , 87, 117-121	3.3	21

242	Local coordination, electronic structure, and thermal quenching of Ce ³⁺ in isostructural Sr ₂ GdAlO ₅ and Sr ₃ AlO ₄ F phosphors. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 1316-1328	3.8	6
241	Persistent energy transfer in ZGO:Cr,Yb: a new strategy to design nano glass-ceramics featuring deep red and near infrared persistent luminescence. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 19458-19468	3.6	18
240	Development of Transparent Ceramic Persistent Phosphors toward High Performances. <i>The Review of Laser Engineering</i> , 2019 , 47, 428	0	
239	Intense deep-red zero phonon line emission of Mn in double perovskite LaTiO. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 25108-25117	3.6	12
238	Orange Persistent Luminescence and Photodarkening Related to Paramagnetic Defects of Nondoped CaO-Ga ₂ O ₃ -GeO ₂ Glass. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 29946-29953	3.8	8
237	Long persistent luminescence and blue photochromism in Eu ²⁺ -Dy ³⁺ co-doped barium silicate glass ceramic phosphor. <i>Journal of Luminescence</i> , 2019 , 207, 246-250	3.8	11
236	Persistent luminescence instead of phosphorescence: History, mechanism, and perspective. <i>Journal of Luminescence</i> , 2019 , 205, 581-620	3.8	249
235	Toward Rechargeable Persistent Luminescence for the First and Third Biological Windows via Persistent Energy Transfer and Electron Trap Redistribution. <i>Inorganic Chemistry</i> , 2018 , 57, 5194-5203	5.1	66
234	Red-emission over a wide range of wavelengths at various temperatures from tetragonal BaCN ₂ :Eu ²⁺ . <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6370-6377	7.1	17
233	Investigation of luminescence quenching and persistent luminescence in Ce ³⁺ doped (Gd,Y) ₃ (Al,Ga) ₅ O ₁₂ garnet using vacuum referred binding energy diagram. <i>Journal of Luminescence</i> , 2018 , 198, 418-426	3.8	18
232	First-principles and crystal-field calculations of the electronic and optical properties of two novel red phosphors Rb ₂ HfF ₆ :Mn ⁴⁺ and Cs ₂ HfF ₆ :Mn ⁴⁺ . <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2368-2375	3.8	9
231	Enhanced persistent red luminescence in Mn ²⁺ -doped (Mg,Zn)GeO ₃ by electron trap and conduction band engineering. <i>Optical Materials</i> , 2018 , 79, 147-151	3.3	17
230	Intense hypersensitive luminescence of Eu ³⁺ -doped YSiO ₂ N oxynitride with near-UV excitation. <i>Optical Materials</i> , 2018 , 83, 111-117	3.3	5
229	Tailoring Trap Depth and Emission Wavelength in YAlGa O:Ce,V Phosphor-in-Glass Films for Optical Information Storage. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27150-27159	9.5	57
228	Development of persistent phosphor of Eu ²⁺ doped Ba ₂ SiO ₄ by Er ³⁺ codoping based on vacuum referred binding energy diagram. <i>Optical Materials</i> , 2018 , 84, 436-441	3.3	6
227	Luminescence properties of layered mixed-anion compounds Sr ₂ ScCuSeO ₃ and Sr ₃ Sc ₂ Cu ₂ Se ₂ O ₅ . <i>Optical Materials</i> , 2018 , 84, 205-208	3.3	4
226	Rapid deposition and thermoelectric properties of ytterbium boride thin films using hybrid physical chemical vapor deposition. <i>Materialia</i> , 2018 , 1, 244-248	3.2	6
225	Flicker Suppression of AC Driven White LED by Yellow Persistent Phosphor of Ce ³⁺ -Ir ³⁺ Co-doped Garnet. <i>Journal of Science and Technology in Lighting</i> , 2018 , 41, 89-92	0.1	5

224	Comparison of quenching mechanisms in GdAlGaO:Ce (x = 3 and 5) garnet phosphors by photocurrent excitation spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 18380-18390	3.6	7
223	Preparation, electronic structure of gadolinium oxyhydride and low-energy 5d excitation band for green luminescence of doped Tb ³⁺ ions. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7541-7548	7.1	36
222	Persistent luminescence in both first and second biological windows in ZnGa ₂ O ₄ :Cr ³⁺ ,Yb ³⁺ glass ceramics 2018 ,		2
221	Thermal Quenching Mechanism of CaAlSiN ₃ :Eu ²⁺ Red Phosphor. <i>Bulletin of the Chemical Society of Japan</i> , 2018 , 91, 173-177	5.1	23
220	1.2 h 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
219	Ratiometric optical thermometry using deep red luminescence from 4T ₂ and 2E states of Cr ³⁺ in ZnGa ₂ O ₄ host. <i>Optical Materials</i> , 2018 , 85, 510-516	3.3	62
218	Revisiting Cr-Doped BiGaO Spectroscopy: Crystal Field Effect and Optical Thermometric Behavior of Near-Infrared-Emitting Singly-Activated Phosphors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41512-41524	9.5	78
217	Tunable trap depth for persistent luminescence by cationic substitution in Pr ³⁺ :K _{1-x} NaxNbO ₃ perovskites. <i>Journal of the American Ceramic Society</i> , 2018 , 102, 2629	3.8	6
216	Formation of Deep Electron Traps by Yb Codoping Leads to Super-Long Persistent Luminescence in Ce-Doped Yttrium Aluminum Gallium Garnet Phosphors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20652-20660	9.5	65
215	LaAlO ₃ :Cr ³⁺ , Sm ³⁺ : Nano-perovskite with persistent luminescence for in vivo optical imaging. <i>Journal of Luminescence</i> , 2018 , 202, 83-88	3.8	30
214	Thermal ionization and thermally activated crossover quenching processes for 5d ⁴ f luminescence in Y ₃ Al _{5-x} GaxO ₁₂ :Pr ³⁺ . <i>Physical Review B</i> , 2017 , 95,	3.3	45
213	Metal-to-metal charge transfer band position control and luminescence quenching by cationic substitution in NaNbO ₃ :Pr ³⁺ 2017 ,		2
212	Toward tunable and bright deep-red persistent luminescence of Cr ³⁺ in garnets. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4033-4044	3.8	45
211	Thermoluminescence investigation on Y ₃ Al _{5-x} GaxO ₁₂ :Ce ³⁺ -Bi ³⁺ green persistent phosphors. <i>Journal of Luminescence</i> , 2017 , 183, 355-359	3.8	20
210	Vacuum Referred Binding Energy (VRBE)-Guided Design of Orange Persistent CaSiO:Eu Phosphors. <i>Inorganic Chemistry</i> , 2017 , 56, 10353-10360	5.1	30
209	Cr/Er co-doped LaAlO perovskite phosphor: a near-infrared persistent luminescence probe covering the first and third biological windows. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 6385-6393	7.3	52
208	The role of Ln ³⁺ (Ln = Eu, Yb) in persistent red luminescence in MgGeO ₃ :Mn ²⁺ . <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8893-8900	7.1	33
207	Vacuum referred binding energy of 3d transition metal ions for persistent and photostimulated luminescence phosphors of cerium-doped garnets. <i>Journal of Luminescence</i> , 2017 , 192, 371-375	3.8	16

206	Red persistent luminescence in rare earth-free AlN:Mn ²⁺ phosphor. <i>Materials Letters</i> , 2017 , 206, 175-177	3.3	18
205	Evidence of valence state change of Ce ³⁺ and Cr ³⁺ during UV charging process in Y ₃ Al ₂ Ga ₃ O ₁₂ persistent phosphors. <i>Optical Materials Express</i> , 2017 , 7, 2471	2.6	17
204	Significance of host's intrinsic absorption band tailing on Ce ³⁺ luminescence quantum yield in borate glass. <i>Journal of Luminescence</i> , 2016 , 170, 785-788	3.8	15
203	Effect of synthesis conditions on Ce ³⁺ luminescence in borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2016 , 431, 150-153	3.9	42
202	Optical and scintillation properties of Ce-doped 34Li ₂ O·5MgO·10Al ₂ O ₃ ·1SiO ₂ glass. <i>Journal of Non-Crystalline Solids</i> , 2016 , 431, 140-144	3.9	28
201	Comparative study of optical and scintillation properties of Ce:YAGG, Ce:GAGG and Ce:LuAGG transparent ceramics. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 569-573	1	15
200	A Comparison on Ce ³⁺ Luminescence in Borate Glass and YAG Ceramic: Understanding the Role of Host's Characteristics. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17683-17691	3.8	37
199	Ratiometric Optical Thermometer Based on Dual Near-Infrared Emission in Cr ³⁺ -Doped Bismuth-Based Gallate Host. <i>Chemistry of Materials</i> , 2016 , 28, 8347-8356	9.6	152
198	Study on Trap Levels in SrSiAlON:Eu,Ln Persistent Phosphors Based on Host-Referred Binding Energy Scheme and Thermoluminescence Analysis. <i>Inorganic Chemistry</i> , 2016 , 55, 11890-11897	5.1	40
197	Near-infrared long persistent luminescence of Er ³⁺ in garnet for the third bio-imaging window. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 11096-11103	7.1	64
196	Spectroscopic properties and location of the Ce(3+) energy levels in Y ₃ Al ₂ Ga ₃ O ₁₂ and Y ₃ Ga ₅ O ₁₂ at ambient and high hydrostatic pressure. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 6683-90	3.6	23
195	Editors' Choice Investigation of Luminescence and Photoacoustic Properties in Ce ³⁺ -Doped Ln ₃ Al ₅ O ₁₂ (Ln= Lu, Y, Gd) Garnet. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, R219-R222	2	4
194	Feature issue introduction: persistent and photostimulable phosphors in an established research field with clear challenges ahead. <i>Optical Materials Express</i> , 2016 , 6, 1414	2.6	11
193	Photostimulation induced persistent luminescence in Y ₃ Al ₂ Ga ₃ O ₁₂ :Cr ³⁺ . <i>Optical Materials Express</i> , 2016 , 6, 1405	2.6	45
192	Persistent luminescence properties of Cr ³⁺ -Sm ³⁺ activated LaAlO ₃ perovskite. <i>Optical Materials Express</i> , 2016 , 6, 1500	2.6	23
191	Novel persistent phosphors of lanthanide-chromium co-doped yttrium aluminum gallium garnet: design concept with vacuum referred binding energy diagram. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4380-4386	7.1	37
190	Trap depth and color variation of Ce ³⁺ -Cr ³⁺ co-doped Gd ₃ (Al,Ga) ₅ O ₁₂ garnet persistent phosphors. <i>Optical Materials</i> , 2016 , 62, 171-175	3.3	20
189	Scintillation and optical properties of Ce-doped YAGG transparent ceramics. <i>Journal of Rare Earths</i> , 2016 , 34, 763-768	3.7	12

188	Fabrication of Ce ³⁺ /Cr ³⁺ co-doped yttrium aluminium gallium garnet transparent ceramic phosphors with super long persistent luminescence. <i>Scripta Materialia</i> , 2015 , 102, 47-50	5.6	75
187	Control of electron transfer between Ce ³⁺ and Cr ³⁺ in the Y ₃ Al ₅ Ga _x O ₁₂ host via conduction band engineering. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 5642-5651	7.1	142
186	Y ₃ Al ₅ Ga _x O ₁₂ :Cr ³⁺ : A novel red persistent phosphor with high brightness. <i>Applied Physics Express</i> , 2015 , 8, 042602	2.4	52
185	Experimental insights on the electron transfer and energy transfer processes between Ce ³⁺ -Yb ³⁺ and Ce ³⁺ -Tb ³⁺ in borate glass. <i>Applied Physics Letters</i> , 2015 , 106, 131906	3.4	20
184	Near-infrared multi-wavelengths long persistent luminescence of Nd ³⁺ ion through persistent energy transfer in Ce ³⁺ , Cr ³⁺ co-doped Y ₃ Al ₂ Ga ₃ O ₁₂ for the first and second bio-imaging windows. <i>Applied Physics Letters</i> , 2015 , 107, 081903	3.4	71
183	Design of deep-red persistent phosphors of Gd ₃ Al ₅ -xGa _x O ₁₂ :Cr ³⁺ transparent ceramics sensitized by Eu ³⁺ as an electron trap using conduction band engineering. <i>Optical Materials Express</i> , 2015 , 5, 963	2.6	36
182	Insight into the Thermal Quenching Mechanism for Y ₃ Al ₅ O ₁₂ :Ce ³⁺ through Thermoluminescence Excitation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25003-25008	3.8	223
181	Deep-red persistent luminescence in Cr ³⁺ -doped LaAlO ₃ perovskite phosphor for in vivo imaging. <i>Applied Physics Express</i> , 2015 , 8, 012102	2.4	60
180	Enhanced Light Storage of SrAl ₂ O ₄ Glass-Ceramics Controlled by Selective Europium Reduction. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 423-429	3.8	20
179	Glass and Rare-Earth Elements: A Personal Perspective. <i>International Journal of Applied Glass Science</i> , 2015 , 6, 305-328	1.8	20
178	Glass-Ceramics and Solid-State Lighting. <i>International Journal of Applied Glass Science</i> , 2015 , 6, 356-363	1.8	27
177	Evidence of three different Eu ²⁺ sites and their luminescence quenching processes in CaAl ₂ O ₄ :Eu ²⁺ . <i>Optical Materials</i> , 2015 , 41, 84-89	3.3	14
176	Role of electron transfer in Ce ³⁺ sensitized Yb ³⁺ luminescence in borate glass. <i>Journal of Applied Physics</i> , 2015 , 117, 013105	2.5	30
175	Optical excitation and external photoluminescence quantum efficiency of Eu ²⁺ in GaN. <i>Scientific Reports</i> , 2014 , 4, 5235	4.9	29
174	Recreating the Lycurgus effect from silver nanoparticles in solutions and in silica gel. <i>Journal of Materials Science</i> , 2014 , 49, 3299-3304	4.3	11
173	Bright persistent ceramic phosphors of Ce ³⁺ -Cr ³⁺ -codoped garnet able to store by blue light. <i>Applied Physics Letters</i> , 2014 , 104, 101904	3.4	140
172	Photo-electronic properties and persistent luminescence in Pr ³⁺ doped (Ca,Sr)TiO ₃ ceramics. <i>Journal of Luminescence</i> , 2014 , 148, 290-295	3.8	19
171	Samarium-Doped Oxyfluoride Glass-Ceramic as a New Fast Erasable Dosimetric Detector Material for Microbeam Radiation Cancer Therapy Applications at the Canadian Synchrotron. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2147-2153	3.8	50

170	A brief review on red to near-infrared persistent luminescence in transition-metal-activated phosphors. <i>Optical Materials</i> , 2014 , 36, 1907-1912	3.3	149
169	Band-gap variation and a self-redox effect induced by compositional deviation in Zn _x Ga ₂ O _{3+x} :Cr ³⁺ persistent phosphors. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5502	7.1	74
168	Yellow persistent luminescence in Ce ³⁺ /Cr ³⁺ -codoped gadolinium aluminum gallium garnet transparent ceramics after blue-light excitation. <i>Applied Physics Express</i> , 2014 , 7, 062201	2.4	54
167	Modulation of the optical properties of Pr ³⁺ -doped Y ₂ O ₃ ceramics by Zr doping. <i>Journal of the Ceramic Society of Japan</i> , 2014 , 122, 89-92	1	4
166	Effect of Bi ₂ O ₃ doping on persistent luminescence of MgGeO ₃ :Mn ²⁺ phosphor. <i>Optical Materials Express</i> , 2014 , 4, 613	2.6	46
165	Wavelength Tailorability of Broadband Near-Infrared Luminescence in Cr ⁴⁺ -Activated Transparent Glass-Ceramics. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3519-3523	3.8	7
164	Multi-color persistent luminescence in transparent glass ceramics containing spinel nano-crystals with Mn ²⁺ ions. <i>Applied Physics Letters</i> , 2014 , 105, 191904	3.4	36
163	RPL in alpha particle irradiated Ag ⁺ -doped phosphate glass. <i>Radiation Measurements</i> , 2014 , 71, 529-532	1.5	34
162	Development of blue excitable persistent phosphor of Ce ³⁺ -doped garnet ceramics by bandgap engineering and metal sensitization 2014 ,		3
161	Enhancement of Red Persistent Luminescence in Cr ³⁺ -Doped ZnGa ₂ O ₄ Phosphors by Bi ₂ O ₃ Codoping. <i>Applied Physics Express</i> , 2013 , 6, 052602	2.4	110
160	Temperature and compositional dependence of optical and optoelectronic properties in Ce ³⁺ -doped Y ₃ Sc ₂ Al _{3-x} Ga _x O ₁₂ (x=0, 1, 2, 3). <i>Optical Materials</i> , 2013 , 35, 1952-1957	3.3	79
159	Conversion of Valence State and Coordination State of Fe in Transparent Glass-Ceramics Containing Li ₂ ZnSiO ₄ Nanocrystals. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2864-2869	3.8	7
158	Tunable trap depth in Zn(Ga _{1-x} Al _x) ₂ O ₄ :Cr,Bi red persistent phosphors: considerations of high-temperature persistent luminescence and photostimulated persistent luminescence. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7849	7.1	123
157	Mechanism of quantum cutting in Pr ³⁺ /Yb ³⁺ codoped oxyfluoride glass ceramics. <i>Journal of Luminescence</i> , 2013 , 134, 825-829	3.8	30
156	Photochromism and near-infrared persistent luminescence in Eu ²⁺ -Nd ³⁺ -co-doped CaAl ₂ O ₄ ceramics. <i>Optical Materials Express</i> , 2013 , 3, 787	2.6	44
155	Excited state dynamics and energy transfer rates in Sr ₃ Tb _{0.90} Eu _{0.10} (PO ₄) ₃ . <i>Journal of Luminescence</i> , 2012 , 132, 27-29	3.8	27
154	Optical and optoelectronic analysis of persistent luminescence in Eu ²⁺ -Dy ³⁺ codoped SrAl ₂ O ₄ ceramic phosphor. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 2322-2325		32
153	Interactive energy transfer between Cu ²⁺ and Yb ³⁺ in Ca _{1-x} CuSi ₄ O ₁₀ :Yb _x . <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 2304-2307		2

152	Optical and optoelectronic properties of Ce ³⁺ doped Mg ₃ Y ₂ (Ge,Si) ₃ O ₁₂ inverse garnet. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 2296-2299		7
151	Preface: Optical, Optoelectronic and Photonic Materials and Applications. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 2222-2225		
150	Broadband spectral conversion due to cooperative and phonon-assistant energy transfer from ZnO to Yb ³⁺ . <i>Applied Physics B: Lasers and Optics</i> , 2012 , 108, 553-558	1.9	7
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6	ESR and Mössbauer studies of Bi ₂ O ₃ ?Fe ₂ O ₃ glasses. <i>Journal of Non-Crystalline Solids</i> , 1989 , 109, 289-294	3.9	26
5	ESR and Mössbauer studies of dispersed states of Fe ³⁺ ions in silica gels. <i>Journal of Non-Crystalline Solids</i> , 1988 , 100, 388-393	3.9	9
4	Temperature Dependence of Elastic Properties of YBa ₂ Cu ₃ O _{7-x} , Superconductor. <i>Chemistry Letters</i> , 1987 , 16, 2193-2196	1.7	3
3	Site-Selective Eu ³⁺ Luminescence in the Monoclinic Phase of YSiO ₂ N. <i>Chemistry of Materials</i> ,	9.6	3
2	Recent Progress on Mixed-Anion Materials for Energy Applications. <i>Bulletin of the Chemical Society of Japan</i> ,	5.1	6
1	Self-Straining Nanocrystals Strategy: Temperature and Pressure Co-Induced Phase Transitions of CsPbBr ₃ in Amorphous Matrices. <i>Advanced Optical Materials</i> , 2200818	8.1	0