

Marco Bettinelli

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.

539 papers	18,735 citations	67 h-index	111 g-index
583 ext. papers	20,409 ext. citations	3.8 avg, IF	6.58 L-index

#	Paper	IF	Citations
539	Site selective luminescence spectroscopy of Eu ³⁺ in the rhombohedral pyrochlores Mg ₂ La ₃ Sb ₃ O ₁₄ and Ca ₂ La ₃ Sb ₃ O ₁₄ : Observation of Eu ³⁺ in a strongly distorted site. <i>Journal of Luminescence</i> , 2022 , 130, 99		
538	White light emission and energy transfer processes in LaInO ₃ doped with Bi ³⁺ , Tb ³⁺ and Eu ³⁺ . <i>Journal of Alloys and Compounds</i> , 2022 , 899, 163344	5.7	1
537	Site selective luminescence spectroscopy of Eu ³⁺ in the rhombohedral pyrochlores Mg ₂ La ₃ Sb ₃ O ₁₄ and Ca ₂ La ₃ Sb ₃ O ₁₄ : Observation of Eu ³⁺ in a strongly distorted site. <i>Journal of Luminescence</i> , 2022 , 130, 99	3.8	
536	Spectroscopic and Structural Properties of Tricalcium Phosphates Ca ₉ RE(PO ₄) ₇ (RE = Nd, Gd, Dy). <i>Crystals</i> , 2021 , 11, 1269	2.3	0
535	Systematic Analysis of the Crystal Chemistry and Eu Spectroscopy along the Series of Double Perovskites CaLnSbO (Ln = La, Eu, Gd, Lu, and Y). <i>Inorganic Chemistry</i> , 2021 , 60, 8259-8266	5.1	5
534	The effect of cation substitution on the local coordination of protons in Ba ₂ In _{1.85} M _{0.15} O ₆ H ₂ (M = In, Ga, Sc and Y). <i>Solid State Ionics</i> , 2021 , 365, 115624	3.3	1
533	Experimental and theoretical study of dense YBO ₃ and the influence of non-hydrostaticity. <i>Journal of Alloys and Compounds</i> , 2021 , 850, 156562	5.7	5
532	Phase transition, radio- and photoluminescence of K ₃ Lu(PO ₄) ₂ doped with Pr ³⁺ ions. <i>Journal of Luminescence</i> , 2021 , 230, 117749	3.8	5
531	(INVITED) Energy transfer processes in Sr ₃ Tb(PO ₄) ₃ eulytite-type materials singly doped with Nd ³⁺ and Sm ³⁺ . <i>Optical Materials: X</i> , 2021 , 11, 100074	1.7	
530	Photoluminescence of Bi ³⁺ doped in YOF phosphor as an activator. <i>Optical Materials</i> , 2021 , 119, 111291	3.3	3
529	Novel Nitride Phosphors 2021 , 84-88		
528	Chemical stabilization of Eu ²⁺ in LuPO ₄ and YPO ₄ hosts and its peculiar sharp line luminescence. <i>Journal of Alloys and Compounds</i> , 2020 , 844, 156096	5.7	5
527	Magnetic Properties of a New Hexahalorhenate(IV) Compound and Structural Comparison with Its Hexahaloplatinate(IV) Analog. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 2246-2252	2.3	1
526	Phase Behavior of TmVO under Hydrostatic Compression: An Experimental and Theoretical Study. <i>Inorganic Chemistry</i> , 2020 , 59, 4882-4894	5.1	5
525	Sensitivity of a solid Eu(III) complex towards acetonitrile vapor: Structural and spectroscopic characterization. <i>Journal of Rare Earths</i> , 2020 , 38, 571-576	3.7	2
524	Eu ³⁺ luminescent ions detect water density anomaly. <i>Journal of Luminescence</i> , 2020 , 223, 117263	3.8	1
523	PrVO under High Pressure: Effects on Structural, Optical, and Electrical Properties. <i>Inorganic Chemistry</i> , 2020 , 59, 18325-18337	5.1	3

522	Templated-Construction of Hollow MoS Architectures with Improved Photoresponses. <i>Advanced Science</i> , 2020 , 7, 2002444	13.6	5
521	Unraveling the impact of different thermal quenching routes on the luminescence efficiency of the Y3Al5O12:Ce3+ phosphor for white light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 14015-14027	7.1	17
520	Emission Quenching and First Evidence of Tb3+-to-As5+ Charge Transfer in Terbium(III) Ion-Doped YVxAs1-xO4 Solid-State Solution. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 17364-17371	3.8	2
519	Testing performance of Pr3+-doped KLuP2O7 upon UV-, synchrotron X-ray and cathode-ray excitation. <i>Optical Materials</i> , 2020 , 108, 110234	3.3	4
518	Rare earth elements (REE) in biology and medicine. <i>Rendiconti Lincei</i> , 2020 , 31, 821-833	1.7	10
517	Characterization and Luminescence of Eu3+- and Gd3+-Doped Hydroxyapatite Ca10(PO4)6(OH)2. <i>Crystals</i> , 2020 , 10, 806	2.3	11
516	Photoluminescence Properties and Fabrication of Red-Emitting LEDs based on Ca9Eu(VO4)7 Phosphor. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 016004	2	5
515	Optical properties of Eu(III) and Tb(III) complexes with pyridine- and quinoline- based ligands under high hydrostatic pressure. <i>Inorganica Chimica Acta</i> , 2020 , 499, 119179	2.7	3
514	Precise Characterization of the Rich Structural Landscape Induced by Pressure in Multifunctional FeVO. <i>Inorganic Chemistry</i> , 2020 , 59, 6623-6630	5.1	7
513	Theoretical and Experimental Investigation of the Tb3+-to-Eu3+ Energy Transfer Mechanisms in Cubic A3Tb0.90Eu0.10(PO4)3 (A = Sr, Ba) Materials. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10105-10116	3.8	20
512	High-pressure polymorphs of gadolinium orthovanadate: X-ray diffraction, Raman spectroscopy, and ab initio calculations. <i>Physical Review B</i> , 2019 , 100,	3.3	9
511	Tb3+-to-Eu3+ energy transfer processes in eulytite A3Tb(PO4)3 (A=Sr, Ba) and silico-carnotite Ca3Tb2Z3O12 (Z=Si, Ge) materials doped with Eu3+. <i>Physica B: Condensed Matter</i> , 2019 , 575, 411685	2.8	2
510	Eu(III) and Tb(III) complexes of 6-fold coordinating ligands showing high affinity for the hydrogen carbonate ion: a spectroscopic and thermodynamic study. <i>Dalton Transactions</i> , 2019 , 48, 1202-1216	4.3	14
509	Energy conversion in LiSrPO4 doped with Pr3+ ions. <i>Radiation Measurements</i> , 2019 , 123, 39-43	1.5	9
508	Luminescence Spectroscopy and Decay Kinetics of Pr3+ Ions in K3LuSi2O7:Pr3+. <i>Physics of the Solid State</i> , 2019 , 61, 752-757	0.8	5
507	Luminescence of Pr3+ Impurity Centers and Defects in Sr9Sc(PO4)7:Pr3+. <i>Physics of the Solid State</i> , 2019 , 61, 758-762	0.8	3
506	Dynamics of Charges in Superlong Blacklight-Emitting CaB2O4:Ce3+ Persistent Phosphor. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14639-14646	3.8	8
505	Pressure Effects on the Optical Properties of NdVO4. <i>Crystals</i> , 2019 , 9, 237	2.3	10

- 504 High-pressure phase transformations in NdVO under hydrostatic, conditions: a structural powder x-ray diffraction study. *Journal of Physics Condensed Matter*, **2019**, 31, 235401 1.8 10
- 503 Unraveling the Mechanisms of Thermal Quenching of Luminescence in Ce³⁺-Doped Garnet Phosphors *Chemistry of Materials*, **2019**, 31, 3851-3862 9.6 79
- 502 Electron and hole trapping in Eu- or Eu,Hf-doped LuPO₄ and YPO₄ tracked by EPR and TSL spectroscopy. *Journal of Materials Chemistry C*, **2019**, 7, 11473-11482 7.1 10
- 501 Crystal field and hyperfine structure of Er³⁺ in YPO₄:Er single crystals: High-resolution optical and EPR spectroscopy. *Physical Review B*, **2019**, 99, 3.3 5
- 500 ~~Pr³⁺ = SUP = -3+ = /SUP = -~~ Sr = SUB = -9 = /SUB = Sc(PO = SUB = -4 = /SUB =) = SUB = -7 = /SUB = : Pr = SUP = -3+ = /SUP = -. *Physics of the Solid State*, **2019**, 61, 867 0
- 499 ~~Pr³⁺ = SUP = -3+ = /SUP = -~~ K = SUB = -3 = /SUB = LuSi = SUB = -2 = /SUB = O = SUB = -7 = /SUB = : Pr = SUP = -3+ = /SUP = -. *Physics of the Solid State*, **2019**, 61, 861 0
- 498 Characterization of Flux-Grown Sm_xNd_{1-x}VO₄ Compounds and High-Pressure Behavior for x = 0.5. *Journal of Physical Chemistry C*, **2019**, 123, 30732-30745 3.8 4
- 497 LiCrO₂ Under Pressure: In-Situ Structural and Vibrational Studies. *Crystals*, **2019**, 9, 2 2.3 4
- 496 Unraveling Pr³⁺ 5d-4f emission in LiLa₉(SiO₄)₆O₂ crystals doped with Pr³⁺ ions. *Optical Materials*, **2018**, 79, 108-114 3.3 10
- 495 Bandgap behavior and singularity of the domain-induced light scattering through the pressure-induced ferroelectric transition in relaxor ferroelectric AxBa_{1-x}Nb₂O₆ (A: Sr,Ca). *Applied Physics Letters*, **2018**, 112, 042901 3.4 2
- 494 Understanding the Interactions between Vibrational Modes and Excited State Relaxation in Y_{3-x}Ce_xAl₅O₁₂: Design Principles for Phosphors Based on 5d-4f Transitions. *Chemistry of Materials*, **2018**, 30, 1865-1877 9.6 49
- 493 A chiral lactate reporter based on total and circularly polarized Tb(III) luminescence. *New Journal of Chemistry*, **2018**, 42, 7931-7939 3.6 21
- 492 Green persistent luminescence excitable by multiple wavelengths in the CaSc₂O₄:Ce³⁺ phosphor co-doped with Mg²⁺. *Journal of Luminescence*, **2018**, 196, 437-441 3.8 9
- 491 High-pressure structural and vibrational properties of monazite-type BiPO₄, LaPO₄, CePO₄, and PrPO₄. *Journal of Physics Condensed Matter*, **2018**, 30, 065401 1.8 15
- 490 Competition between Energy Transfer and Energy Migration Processes in Neat and Eu³⁺-Doped TbPO₄. *Journal of Physical Chemistry C*, **2018**, 122, 6858-6864 3.8 17
- 489 New Eu(III)-based complex with a C₁ symmetric chiral ligand: A spectroscopic study. *Journal of Luminescence*, **2018**, 193, 114-118 3.8 4
- 488 Impurity and defect-related luminescence of Ce³⁺ doped LiLa₉(SiO₄)₆O₂ crystals upon UV-VUV, X-ray and cathode ray excitation. *Optical Materials*, **2018**, 84, 66-72 3.3 1
- 487 Circularly Polarized Luminescence from an Eu(III) Complex Based on 2-Thenoyltrifluoroacetyl-acetonate and a Tetradentate Chiral Ligand. *Inorganic Chemistry*, **2018**, 57, 10257-10264 5.1 21

486	Weak thermal quenching of the luminescence in the Ca ₃ Sc ₂ Si ₃ O ₁₂ :Ce ³⁺ garnet phosphor. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8923-8933	7.1	43
485	Disorder-Induced Breaking of the Local Inversion Symmetry in Rhombohedral Pyrochlores MLaSbO (M = Mg or Ca): A Structural and Spectroscopic Investigation. <i>Inorganic Chemistry</i> , 2018 , 57, 9241-9250	5.1	10
484	Luminescence upconversion of Er:Yb:KY(WO ₄) ₂ green phosphor with high color purity. <i>Optical Materials</i> , 2018 , 84, 354-359	3.3	12
483	All-inorganic perovskite nanocrystal scintillators. <i>Nature</i> , 2018 , 561, 88-93	50.4	773
482	Effect of H ₂ O and D ₂ O Thermal Anomalies on the Luminescence of Eu ³⁺ Aqueous Complexes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14838-14845	3.8	8
481	High Pressure Raman, Optical Absorption, and Resistivity Study of SrCrO. <i>Inorganic Chemistry</i> , 2018 , 57, 7550-7557	5.1	15
480	Experimental and theoretical study on the optical properties of LaVO crystals under pressure. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 27314-27328	3.6	20
479	Comparative Spectroscopic Investigation of Tm ³⁺ :Tellurite Glasses for 2- μ m Lasing Applications. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 333	2.6	13
478	High-Pressure High-Temperature Stability and Thermal Equation of State of Zircon-Type Erbium Vanadate. <i>Inorganic Chemistry</i> , 2018 , 57, 14005-14012	5.1	10
477	High-pressure structural, elastic, and thermodynamic properties of zircon-type HoPO and TmPO. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 095401	1.8	31
476	5d-4f Radioluminescence in Pr ³⁺ -doped K ₃ Y _x Lu _{1-x} (PO ₄) ₂ . <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2017 , 489-490	0.2	
475	Optical spectroscopy of random deformations in elastically-anisotropic crystals containing rare-earth ions. <i>EPJ Web of Conferences</i> , 2017 , 132, 02016	0.3	1
474	Lanthanide-Activated Phosphors Based on 4f-5d Optical Transitions: Theoretical and Experimental Aspects. <i>Chemical Reviews</i> , 2017 , 117, 4488-4527	68.1	494
473	Color Control of Pr Luminescence by Electron-Hole Recombination Energy Transfer in CaTiO and CaZrO. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3095-3100	6.4	34
472	Anisotropic Proton and Oxygen Ion Conductivity in Epitaxial Ba ₂ In ₂ O ₅ Thin Films. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21797-21805	3.8	8
471	Influence of Ce ³⁺ Concentration on the Thermal Stability and Charge-Trapping Dynamics in the Green Emitting Phosphor CaSc ₂ O ₄ :Ce ³⁺ . <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23096-23103	3.8	19
470	Nanophotonic rare-earth quantum memory with optically controlled retrieval. <i>Science</i> , 2017 , 357, 1392-1395	39.5	123
469	Optical Spectroscopy of Ca ₉ Tb _{1-x} Eux(PO ₄) ₇ (x = 0, 0.1, 1): Weak Donor Energy Migration in the Whitlockite Structure. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 16943-16950	3.8	16

468	Distribution function of random strains in an elastically anisotropic continuum and defect strengths of Tm ³⁺ impurity ions in crystals with zircon structure. <i>Physical Review B</i> , 2017 , 96,	3.3	9
467	Structural effects and 5d-4f emission transition shifts induced by Y co-doping in Pr-doped K ₃ Lu _{1-x} Y _x (PO ₄) ₂ . <i>Journal of Luminescence</i> , 2017 , 189, 113-119	3.8	8
466	Luminescence of Tb-based materials doped with Eu ³⁺ : case studies for energy transfer processes. <i>Journal of Luminescence</i> , 2017 , 189, 71-77	3.8	27
465	Tunable emission from silico-carnotite type double silicates doped with Tb ³⁺ and Eu ³⁺ . <i>Optical Materials Express</i> , 2016 , 6, 1738	2.6	
464	Structure and Conductivity of Epitaxial Thin Films of In-Doped BaZrO ₃ -Based Proton Conductors. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 28415-28422	3.8	7
463	Monazite-type SrCrO ₄ under compression. <i>Physical Review B</i> , 2016 , 94,	3.3	26
462	Spectroscopic study of radiative intra-configurational 4f-4f transitions in Yb ³⁺ -doped materials using high hydrostatic pressure. <i>Journal of Luminescence</i> , 2016 , 169, 507-515	3.8	6
461	Spectroscopic and structural properties of polycrystalline Y ₂ Si ₂ O ₇ doped with Er ³⁺ . <i>Journal of Luminescence</i> , 2016 , 170, 614-618	3.8	7
460	Structural and spectroscopic features of Ca ₉ M(PO ₄) ₇ (M = Al ³⁺ , Lu ³⁺) whitlockites doped with Pr ³⁺ ions. <i>Journal of Alloys and Compounds</i> , 2016 , 672, 45-51	5.7	15
459	Tuning of the sensing properties of luminescent Eu(3+) complexes towards the nitrate anion. <i>Dalton Transactions</i> , 2016 , 45, 3310-8	4.3	19
458	Photoluminescence tuning via energy transfer in Eu-doped Ba ₂ (Gd,Tb)Si ₄ O ₁₃ solid-solution phosphors. <i>RSC Advances</i> , 2016 , 6, 2046-2054	3.7	23
457	White light generation in Tb ³⁺ /Eu ³⁺ /Dy ³⁺ triply-doped Zn(PO ₃) ₂ glass. <i>Optical Materials</i> , 2016 , 51, 128-132	3.32	38
456	Amplification of light emission of chiral pyridine Eu(III) complex by copper nanoparticles. <i>Journal of Luminescence</i> , 2016 , 170, 820-824	3.8	15
455	Phase Stability of Lanthanum Orthovanadate at High Pressure. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13749-13762	3.8	36
454	White light generation through Zn(PO ₃) ₂ glass activated with Eu ³⁺ and Dy ³⁺ . <i>Journal of Luminescence</i> , 2016 , 176, 235-239	3.8	34
453	Inorganic Phosphor Materials for Lighting. <i>Topics in Current Chemistry</i> , 2016 , 374, 21	7.2	105
452	Structural and Spectroscopic Properties of New Chiral Quinoline-based Ln(III) Complexes. <i>ChemistrySelect</i> , 2016 , 1, 1996-2003	1.8	9
451	Luminescent Eu ³⁺ complexes in acetonitrile solution: Anion sensing and effect of water on the speciation. <i>Inorganica Chimica Acta</i> , 2016 , 453, 751-756	2.7	13

450	Dependence of the up-conversion emission of Li ⁺ co-doped Y ₂ O ₃ :Er ³⁺ films with dopant concentration. <i>Journal of Luminescence</i> , 2015 , 167, 352-359	3.8	23
449	White light generation in Dy ³⁺ - and Ce ³⁺ /Dy ³⁺ -doped zinc-borodimethyluminosilicate glasses. <i>Journal of Luminescence</i> , 2015 , 167, 327-332	3.8	47
448	Modeling the lattice parameters of zircon-type MXO ₄ (M=divalent, trivalent or tetravalent metal, X=V, P, As, Si) crystals. <i>Journal of Solid State Chemistry</i> , 2015 , 230, 49-55	3.3	6
447	Assessing Single Upconverting Nanoparticle Luminescence by Optical Tweezers. <i>Nano Letters</i> , 2015 , 15, 5068-74	11.5	42
446	Orange and reddish-orange light emitting phosphors: Sm ³⁺ and Sm ³⁺ /Eu ³⁺ doped zinc phosphate glasses. <i>Journal of Luminescence</i> , 2015 , 167, 305-309	3.8	51
445	Theoretical and Experimental Study of the Crystal Structures, Lattice Vibrations, and Band Structures of Monazite-Type PbCrO ₄ , PbSeO ₄ , SrCrO ₄ , and SrSeO ₄ . <i>Inorganic Chemistry</i> , 2015 , 54, 7524-7535	5.1	78
444	Upconversion nanocrystals: Bright colours ahead. <i>Nature Nanotechnology</i> , 2015 , 10, 203-4	28.7	20
443	Boosting the sensitivity of Nd(3+)-based luminescent nanothermometers. <i>Nanoscale</i> , 2015 , 7, 17261-7	7.7	172
442	Energy transfer processes in Ca ₃ Tb ₂ -Eu _x Si ₃ O ₁₂ (x=0-1). <i>Optical Materials</i> , 2015 , 48, 252-257	3.3	9
441	Structural study of Yb ³⁺ , Eu ³⁺ and Pr ³⁺ doped Ca ₉ Lu(PO ₄) ₇ . <i>Journal of Rare Earths</i> , 2015 , 33, 977-982	3.7	15
440	Study of the high pressure effect on nanoparticles GdVO ₄ : Eu ³⁺ optical properties. <i>Radiation Effects and Defects in Solids</i> , 2015 , 170, 574-583	0.9	6
439	The paramagnetic metal effect on the luminescence of rare-earth-metal complexes with pyridine-based nitrogen ligands. <i>Inorganica Chimica Acta</i> , 2015 , 438, 10-13	2.7	5
438	Neutral and warm white light emission in Tb ³⁺ /Sm ³⁺ zinc phosphate glasses. <i>Optical Materials</i> , 2015 , 47, 537-542	3.3	50
437	Enhancing optical forces on fluorescent up-converting nanoparticles by surface charge tailoring. <i>Small</i> , 2015 , 11, 1555-61	11	16
436	1.3 μ m emitting SrF ₂ :Nd ³⁺ nanoparticles for high contrast in vivo imaging in the second biological window. <i>Nano Research</i> , 2015 , 8, 649-665	10	167
435	Structural, optical and sensing properties of novel Eu(III) complexes with furan- and pyridine-based ligands. <i>Dalton Transactions</i> , 2015 , 44, 182-92	4.3	33
434	High pressure phase transitions in NdVO ₄ 2015 ,		8
433	Lanthanide-doped upconversion nanoparticles. <i>Physics Today</i> , 2015 , 68, 38-44	0.9	107

432	Down-shifting by energy transfer in Tb ³⁺ /Dy ³⁺ co-doped zinc phosphate glasses. <i>Journal of Luminescence</i> , 2015 , 161, 142-146	3.8	49
431	Upconversion Dynamics in Er ³⁺ -Doped Gd ₂ O ₂ S: Influence of Excitation Power, Er ³⁺ Concentration, and Defects. <i>Advanced Optical Materials</i> , 2015 , 3, 558-567	8.1	56
430	Incandescent Lamp-Like White-Light Emission from Doped and Undoped Oxide Nanopowders. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2015 , 273-284	0.2	3
429	Single crystal and nanocrystalline Pr ³⁺ doped LuPO ₄ : Synthesis, structural characterization, photo- and cathodoluminescence. <i>Materials Research Bulletin</i> , 2014 , 51, 24-27	5.1	8
428	Structural and spectroscopic studies of Eu ³⁺ doped Lu ₂ O ₃ /Gd ₂ O ₃ solid solutions. <i>Optical Materials</i> , 2014 , 36, 1083-1091	3.3	17
427	White light upconversion in Yb-sensitized (Tm, Ho)-doped KLu(WO ₄) ₂ nanocrystals: the effect of Eu incorporation. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1679-86	3.6	16
426	The near-IR photo-stimulated luminescence of CaS:Eu ²⁺ /Dy ³⁺ nanophosphors. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 228-231	7.1	60
425	Optical spectroscopy and optical waveguide fabrication in Eu ³⁺ and Eu ³⁺ /Tb ³⁺ doped zinc borosiluminosilicate glasses. <i>Journal of Luminescence</i> , 2014 , 147, 336-340	3.8	20
424	Upconversion emission in (Ln,Yb):KLu(WO ₄) ₂ nanocrystals for white light generation. <i>Journal of Physics: Conference Series</i> , 2014 , 480, 012005	0.3	1
423	VUV-UV 5d-4f interconfigurational transitions of Nd ³⁺ in BaMgF ₄ ferroelectric crystals. <i>Journal of Luminescence</i> , 2014 , 153, 136-139	3.8	5
422	Structural study of Ca ₂ Gd ₂ Ge ₂ O ₉ and optical spectroscopy of the Eu ³⁺ dopant ion. <i>Journal of Solid State Chemistry</i> , 2014 , 212, 180-184	3.3	6
421	Radioluminescence Sensitization in Scintillators and Phosphors: Trap Engineering and Modeling. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9670-9676	3.8	40
420	Compressibility Systematics of Calcite-Type Borates: An Experimental and Theoretical Structural Study on ABO ₃ (A = Al, Sc, Fe, and In). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4354-4361	3.8	19
419	Pressure evolution of luminescence in Sr Ba _{1/2} (NbO ₂) ₃ :Pr ³⁺ (x=1/2 and 1/3). <i>Journal of Luminescence</i> , 2014 , 152, 62-65	3.8	9
418	Optical spectroscopy of Pr ³⁺ in the webberite, NaGdSb ₂ O ₇ : High covalence of Pr ³⁺ -O ₂ bonding. <i>Journal of Luminescence</i> , 2014 , 148, 262-266	3.8	4
417	YAG:Pr ³⁺ transparent ceramics for applications in photonics: synthesis and characterization. <i>Materials Research Express</i> , 2014 , 1, 045903	1.7	14
416	Tunable luminescence of Bi(3+)-doped YP(x)V(1-x)O ₄ (0 ≤ x ≤ 1). <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 385503	1.8	30
415	Ab Initio Calculations of the Structural and Electronic Properties of Ca ₂ La ₃ Sb ₃ O ₁₄ Weberite at Ambient and Elevated Hydrostatic Pressure. <i>ECS Journal of Solid State Science and Technology</i> , 2014 , 3, R1-R4	2	5

414	Rare Earth Doped Glasses for Displays and Light Generation. <i>Advances in Science and Technology</i> , 2014 , 90, 174-178	0.1	10
413	Synchrotron Radiation Study of Interconfigurational 5d-4f Luminescence of Pr ³⁺ in KLuP ₂ O ₇ . <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2014 , 69, 205-209	1	5
412	Quantification of energy transfer processes in LiLa _{0.5} (SiO ₂) _{0.5} Er ³⁺ /Yb ³⁺ under selective Er ³⁺ excitation. <i>Optics Express</i> , 2014 , 22, 14646-56	3.3	9
411	Effects of pumping wavelength and pump density on the random laser performance of stoichiometric Nd crystal powders. <i>Optics Express</i> , 2014 , 22, 27365-72	3.3	13
410	Temperature evolution of the luminescence decay of Sr _{0.33} Ba _{0.67} Nb ₂ O ₆ : Pr ³⁺ . <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 165502	1.8	4
409	Spectroscopic evaluation of Zn(PO ₃) ₂ :Dy ³⁺ glass as an active medium for solid state yellow laser. <i>Optical Materials</i> , 2014 , 38, 188-192	3.3	37
408	Luminescence of Eu ³⁺ and Pr ³⁺ in the weberite, Ca ₂ La ₃ Sb ₃ O ₁₄ . <i>Optical Materials</i> , 2014 , 38, 248-251	3.3	7
407	Broadband Visible Light Emission From Nominally Undoped and Cr^{3+} Doped Garnet Nanopowders. <i>IEEE Photonics Journal</i> , 2014 , 6, 1-11	1.8	9
406	Fast 5d-4f luminescence in Pr ³⁺ -doped K ₃ Lu (PO ₄) ₂ . <i>Journal of Luminescence</i> , 2014 , 152, 2-6	3.8	16
405	In situ high-pressure synchrotron X-ray diffraction study of the structural stability in NdVO ₄ and LaVO ₄ . <i>Materials Research Bulletin</i> , 2014 , 50, 279-284	5.1	49
404	Luminescence dynamics of YAl ₃ (BO ₃) ₄ :Sm ³⁺ crystals. <i>Journal of Luminescence</i> , 2013 , 143, 562-565	3.8	14
403	Effect of spatial confinement on luminescence of Y ₃ Al ₅ O ₁₂ nano-particles doped with chromium ions. <i>Journal of Luminescence</i> , 2013 , 144, 191-197	3.8	3
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