Marco Bettinelli

List of Publications by Citations

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	All-inorganic perovskite nanocrystal scintillators. *Nature*, **2018**, 561, 88-93	50.4	773
538	Lanthanide-Activated Phosphors Based on 4f-5d Optical Transitions: Theoretical and Experimental Aspects. *Chemical Reviews*, **2017**, 117, 4488-4527	68.1	494
537	Significance of Yb3+ concentration on the upconversion mechanisms in codoped Y2O3:Er3+, Yb3+ nanocrystals. *Journal of Applied Physics*, **2004**, 96, 661-667	2.5	468
536	NIR-to-NIR two-photon excited CaF2:Tm3+,Yb3+ nanoparticles: multifunctional nanoprobes for highly penetrating fluorescence bio-imaging. *ACS Nano*, **2011**, 5, 8665-71	16.7	342
535	The COMPASS experiment at CERN. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2007**, 577, 455-518	1.2	339
534	Concentration-Dependent Near-Infrared to Visible Upconversion in Nanocrystalline and Bulk Y2O3:Er3+. *Chemistry of Materials*, **2003**, 15, 2737-2743	9.6	265
533	Enhancement of Red Emission (4F9/2 -4I15/2) via Upconversion in Bulk and Nanocrystalline Cubic Y2O3:Er3+. *Journal of Physical Chemistry B*, **2002**, 106, 1181-1187	3.4	253
532	Variation of Fluorescence Lifetimes and Judd-Ofelt Parameters between Eu3+ Doped Bulk and Nanocrystalline Cubic Lu2O3. *Journal of Physical Chemistry B*, **2004**, 108, 20137-20143	3.4	233
531	Effect of Yb3+ Codoping on the Upconversion Emission in Nanocrystalline Y2O3:Er3+. *Journal of Physical Chemistry B*, **2003**, 107, 1107-1112	3.4	222
530	The deuteron spin-dependent structure function . *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2007**, 647, 8-17	4.2	214
529	A new measurement of the Collins and Sivers asymmetries on a transversely polarised deuteron target. *Nuclear Physics B*, **2007**, 765, 31-70	2.8	182
528	Effect of glass composition on Judd□Ofelt parameters and radiative decay rates of Er3+ in fluoride phosphate and phosphate glasses. *Journal of Non-Crystalline Solids*, **1998**, 240, 66-78	3.9	179
527	Absorption and emission spectroscopy of Eu3+ in metaphosphate glasses. *Physical Review B*, **1990**, 42, 5936-5944	3.3	178
526	Collins and Sivers asymmetries for pions and kaons in muon□deuteron DIS. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2009**, 673, 127-135	4.2	177
525	Growth, spectroscopic characterization, and laser performance of Nd:LuVO_4, a new infrared laser material that is suitable for diode pumping. *Journal of the Optical Society of America B: Optical Physics*, **2002**, 19, 1794	1.7	175
524	Boosting the sensitivity of Nd(3+)-based luminescent nanothermometers. *Nanoscale*, **2015**, 7, 17261-7	7.7	172
523	1.3 □m emitting SrF2:Nd3+ nanoparticles for high contrast in vivo imaging in the second biological window. *Nano Research*, **2015**, 8, 649-665	10	167

522	Optical spectroscopy of nanocrystalline cubic Y2O3:Er3+ obtained by combustion synthesis. *Physical Chemistry Chemical Physics*, **2000**, 2, 3203-3207	3.6	166
521	Visible upconversion of Er3+ doped nanocrystalline and bulk Lu2O3. *Optical Materials*, **2002**, 19, 259-268	3.3	164
520	980 nm excited upconversion in an Er-doped ZnO□TeO2 glass. *Applied Physics Letters*, **2002**, 80, 1752-1754	3.4	161
519	A spectroscopic analysis of blue and ultraviolet upconverted emissions from Gd3Ga5O12:Tm3+, Yb3+ nanocrystals. *Journal of Physical Chemistry B*, **2005**, 109, 17400-5	3.4	160
518	Optical Spectroscopy and Upconversion Studies of Ho3+-Doped Bulk and Nanocrystalline Y2O3. *Chemistry of Materials*, **2002**, 14, 2915-2921	9.6	156
517	Photocatalytic activity of TiO2 doped with boron and vanadium. *Journal of Hazardous Materials*, **2007**, 146, 529-34	12.8	148
516	Bright White Upconversion Emission from Tm3+/Yb3+/Er3+-Doped Lu3Ga5O12 Nanocrystals. *Journal of Physical Chemistry C*, **2008**, 112, 17745-17749	3.8	136
515	The electronic structure of zircon-type orthovanadates: Effects of high-pressure and cation substitution. *Journal of Applied Physics*, **2011**, 110, 043723	2.5	132
514	Making red emitting phosphors with Pr3+. *Optical Materials*, **2006**, 28, 9-13	3.3	131
513	Measurement of the Collins and Sivers asymmetries on transversely polarised protons. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2010**, 692, 240-246	4.2	128
512	Lanthanide level location in transition metal complex compounds. *Optical Materials*, **2010**, 32, 1681-1685	3.3	128
511	Luminescence dynamics in Tb(3+)-doped CaWO(4) and CaMoO(4) crystals. *Inorganic Chemistry*, **2010**, 49, 4916-21	5.1	125
510	Nanophotonic rare-earth quantum memory with optically controlled retrieval. *Science*, **2017**, 357, 1392-1395	33.6	123
509	Optical Properties of Rare-Earth Ions in Lead Germanate Glasses. *Journal of the American Ceramic Society*, **2005**, 81, 2045-2052	3.8	118
508	NIR to Visible Upconversion in Nanocrystalline and Bulk Lu2O3:Er3+. *Journal of Physical Chemistry B*, **2002**, 106, 5622-5628	3.4	117
507	Hexakis(acetato)oxotetrazinc, a well-tailored molecular model of zinc oxide. An experimental and theoretical investigation of the electronic structure of Zn4O(acetate)6 and ZnO by means of UV and x-ray photoelectron spectroscopies and first principle local density molecular cluster calculations. *Inorganic Chemistry*, **1992**, 31, 1558-1565	5.1	117
506	Optical spectra of yttrium phosphate and yttrium vanadate single crystals activated with Dy3+. *Journal of Alloys and Compounds*, **2002**, 341, 107-110	5.7	113
505	Structure□luminescence Correlations in Europium-Doped Sol□Gel ZnO Nanopowders. *Journal of Physical Chemistry C*, **2008**, 112, 4049-4054	3.8	111

504	Optical spectroscopy of lanthanide ions in ZnO-TeO2 glasses. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2001**, 57, 2009-17	4.4	111
503	The spin-dependent structure function of the proton g1p and a test of the Bjorken sum rule. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2010**, 690, 466-472	4.2	110
502	High-pressure stability and compressibility of APO4 (A=La, Nd, Eu, Gd, Er, and Y) orthophosphates: An x-ray diffraction study using synchrotron radiation. *Physical Review B*, **2010**, 81,	3.3	108
501	Optical spectroscopy, fluorescence dynamics and crystal-field analysis of Er3+ in YVO4. *Chemical Physics*, **1997**, 214, 329-340	2.3	108
500	Lanthanide-doped upconversion nanoparticles. *Physics Today*, **2015**, 68, 38-44	0.9	107
499	Inorganic Phosphor Materials for Lighting. *Topics in Current Chemistry*, **2016**, 374, 21	7.2	105
498	Yb3+ ion as a sensitizer for the upconversion luminescence in nanocrystalline Gd3Ga5O12:Ho3+. *Chemical Physics Letters*, **2004**, 390, 403-407	2.5	101
497	Red luminescence induced by intervalence charge transfer in Pr3+-doped compounds. *Journal of Luminescence*, **2007**, 122-123, 430-433	3.8	96
496	Spectroscopic investigation of zinc borate glasses doped with trivalent europium ions. *Journal of Non-Crystalline Solids*, **1996**, 201, 211-221	3.9	96
495	Cross-Relaxation and Upconversion Processes in Pr3+ Singly Doped and Pr3+/Yb3+ Codoped Nanocrystalline Gd3Ga5O12: The Sensitizer/Activator Relationship. *Journal of Physical Chemistry C*, **2008**, 112, 7750-7756	3.8	95
494	A spectroscopic investigation of trivalent lanthanide doped Y2O3nanocrystals. *Nanotechnology*, **2004**, 15, 75-81	3.4	90
493	Identification of the structural phases of Ce(x)Zr(1-x)O2 by Eu(III) luminescence studies. *Journal of the American Chemical Society*, **2009**, 131, 13155-60	16.4	89
492	Synthesis and optical properties of nanosized powders: lanthanide-doped Y2O3. *Applied Surface Science*, **1999**, 144-145, 686-689	6.7	87
491	Water (H2O and D2O) Dispersible NIR-to-NIR Upconverting Yb3+/Tm3+Doped MF2(M = Ca, Sr) Colloids: Influence of the Host Crystal. *Crystal Growth and Design*, **2013**, 13, 4906-4913	3.5	85
490	Vibrational dynamics of anatase TiO2: Polarized Raman spectroscopy and ab initio calculations. *Physical Review B*, **2010**, 81,	3.3	83
489	Growth and fluorescence properties of Tm3+ doped YVO4 and Y2O3 single crystals. *Optical Materials*, **1997**, 8, 83-90	3.3	81
488	Nd3+-Yb3+ energy transfer in the YAl3(BO3)4 nonlinear laser crystal. *Physical Review B*, **2003**, 68,	3.3	81
487	About red afterglow in Pr3+doped titanate perovskites. *Journal Physics D: Applied Physics*, **2009**, 42, 045106	3	80

486	Emission quenching induced by intervalence charge transfer in Pr3+- or Tb3+-doped YNbO4and CaNb2O6. *Journal of Physics Condensed Matter*, **2007**, 19, 386230	1.8	80
485	Unraveling the Mechanisms of Thermal Quenching of Luminescence in Ce3+-Doped Garnet Phosphors *Chemistry of Materials*, **2019**, 31, 3851-3862	9.6	79
484	Theoretical and Experimental Study of the Crystal Structures, Lattice Vibrations, and Band Structures of Monazite-Type PbCrO4, PbSeO4, SrCrO4, and SrSeO4. *Inorganic Chemistry*, **2015**, 54, 7524-35	5.1	78
483	Upconversion Luminescence in Nanocrystals of Gd3Ga5O12 and Y3Al5O12 Doped with Tb3+/Yb3+ and Eu3+/Yb3+. *Journal of Physical Chemistry C*, **2009**, 113, 12195-12200	3.8	78
482	Optical investigation of Eu3+ in a sodium borosilicate glass: Evidence for two different site distributions. *Physical Review B*, **1996**, 53, 6225-6234	3.3	76
481	Study of TL glow curves of YPO4 double doped with lanthanide ions. *Radiation Measurements*, **2011** , 46, 1410-1416	1.5	75
480	Laser-Excited Luminescence of Trivalent Lanthanide Impurities and Local Structure in CeO2/ZrO2 Mixed Oxides. *Chemistry of Materials*, **2004**, 16, 1938-1944	9.6	73
479	Lanthanide doped upconverting colloidal CaF2 nanoparticles prepared by a single-step hydrothermal method: toward efficient materials with near infrared-to-near infrared upconversion emission. *Nanoscale*, **2011**, 3, 1456-60	7.7	71
478	Optical spectroscopy of zinc borate glass activated by Pr3+ ions. *Journal of Non-Crystalline Solids*, **1998**, 231, 178-188	3.9	70
477	Optical spectroscopy of Ca3Sc2Ge3O12:Ni2+. *Journal of Physics and Chemistry of Solids*, **1999**, 60, 449-455	3.9	70
476	Fluorescence properties of Nd3+-doped tellurite glasses. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2007**, 67, 702-8	4.4	69
475	Optical spectroscopy of zinc metaphosphate glasses activated by Ce3+and Tb3+ions. *Journal of Physics Condensed Matter*, **2006**, 18, 3499-3508	1.8	69
474	Luminescence properties of Pr3+ in titanates and vanadates: Towards a criterion to predict 3P0 emission quenching. *Chemical Physics Letters*, **2006**, 418, 185-188	2.5	69
473	Optical spectroscopy of Ca3Sc2Si3O12, Ca3Y2Si3O12 and Ca3Lu2Si3O12 doped with Pr3+. *Journal of Luminescence*, **2010**, 130, 893-901	3.8	68
472	The polarised valence quark distribution from semi-inclusive DIS. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2008**, 660, 458-465	4.2	67
471	Stability of luminescent trivalent cerium in silica host glasses modified by boron and phosphorus. *Journal of the American Chemical Society*, **2005**, 127, 14681-91	16.4	67
470	Upconversion properties of Er3+ doped lead silicate glasses. *Optical Materials*, **1996**, 6, 175-184	3.3	66
469	White light upconversion of nanocrystalline Er/Tm/Yb doped tetragonal Gd4O3F6. *Optical Materials*, **2011**, 33, 643-646	3.3	64

468	PEG-capped, lanthanide doped GdF3 nanoparticles: luminescent and T2 contrast agents for optical and MRI multimodal imaging. *Nanoscale*, **2012**, 4, 7682-9	7.7	63
467	Quantum dot-based thermal spectroscopy and imaging of optically trapped microspheres and single cells. *Small*, **2013**, 9, 2162-70	11	63
466	The near-IR photo-stimulated luminescence of CaS:Eu2+/Dy3+ nanophosphors. *Journal of Materials Chemistry C*, **2014**, 2, 228-231	7.1	60
465	Optical transitions and upconversion properties of Ho3+ doped ZnO□eO2 glass. *Journal of Applied Physics*, **2003**, 93, 9460-9465	2.5	60
464	White light generation through the zinc metaphosphate glass activated by Ce3+, Tb3+ and Mn2+ ions. *Journal of Luminescence*, **2009**, 129, 1276-1280	3.8	58
463	Flavour separation of helicity distributions from deep inelastic muon□euteron scattering. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2009**, 680, 217-224	4.2	58
462	Photoluminescence of Ce3+and Mn2+in zinc metaphosphate glasses. *Journal of Physics Condensed Matter*, **2005**, 17, 7297-7305	1.8	57
461	Upconversion Dynamics in Er3+-Doped Gd2O2S: Influence of Excitation Power, Er3+ Concentration, and Defects. *Advanced Optical Materials*, **2015**, 3, 558-567	8.1	56
460	Nanosecond Nd3+:LuVO4self-Raman laser. *Laser Physics Letters*, **2009**, 6, 374-379	1.5	56
459	Lanthanide 4f-level location in AVO(4):Ln(3+) (A = La, Gd, Lu) crystals. *Journal of Physics Condensed Matter*, **2009**, 21, 115503	1.8	55
458	Tetragonal YPO4□a novel SRS-active crystal. *Laser Physics Letters*, **2008**, 5, 367-374	1.5	55
457	Optical and magnetic properties of first-row transition metal ions in lead-silicate glass. *Journal of Non-Crystalline Solids*, **1981**, 46, 203-215	3.9	55
456	Preparation, structural characterization, and luminescence properties of Eu3+-doped nanocrystalline ZrO2. *Journal of Materials Research*, **2005**, 20, 2780-2791	2.5	54
455	Luminescence Spectroscopy and Near-Infrared to Visible Upconversion of Nanocrystalline Gd3Ga5O12:Er3+. *Journal of Physical Chemistry B*, **2003**, 107, 10747-10752	3.4	54
454	Synthesis, characterization and luminescence spectroscopy of oxide nanopowders activated with trivalent lanthanide ions: The garnet family. *Optical Materials*, **2011**, 33, 247-257	3.3	53
453	New greenish-yellow and yellowish-green emitting glass phosphors: Tb3+/Eu3+ and Ce3+/Tb3+/Eu3+ in zinc phosphate glasses. *Journal of Luminescence*, **2013**, 135, 216-220	3.8	52
452	The Bologna Stone: history's first persistent luminescent material. *European Journal of Mineralogy*, **2012**, 24, 885-890	2.2	52
451	Excited state dynamics of Pr3+ in YVO4 crystals. *Journal of Applied Physics*, **2004**, 96, 4923-4929	2.5	52

450	Orange and reddish-orange light emitting phosphors: Sm3+ and Sm3+/Eu3+ doped zinc phosphate glasses. *Journal of Luminescence*, **2015**, 167, 305-309	3.8	51
449	Quenching of Lanthanide Emission by Intervalence Charge Transfer in Crystals Containing Closed Shell Transition Metal Ions. *Spectroscopy Letters*, **2007**, 40, 209-220	1.1	51
448	Neutral and warm white light emission in Tb3+/Sm3+ zinc phosphate glasses. *Optical Materials*, **2015**, 47, 537-542	3.3	50
447	Molten chloride synthesis, structural characterisation and luminescence spectroscopy of ultrafine Eu3+-doped BaTiO3 and SrTiO3. *Materials Letters*, **2002**, 57, 183-187	3.3	50
446	Electronic spectroscopy of trivalent lanthanide ions in lead zinc borate glasses. *Journal of Alloys and Compounds*, **2000**, 300-301, 174-179	5.7	50
445	Understanding the Interactions between Vibrational Modes and Excited State Relaxation in Y3□CexAl5O12: Design Principles for Phosphors Based on 5d□4f Transitions. *Chemistry of Materials* , **2018**, 30, 1865-1877	9.6	49
444	Optical spectroscopy and waveguide fabrication in Sm3+/Tb3+ doped zinc□odium□luminosilicate glasses. *Optical Materials*, **2012**, 34, 1067-1071	3.3	49
443	Down-shifting by energy transfer in Tb3+/Dy3+ co-doped zinc phosphate glasses. *Journal of Luminescence*, **2015**, 161, 142-146	3.8	49
442	In situ high-pressure synchrotron X-ray diffraction study of the structural stability in NdVO4 and LaVO4. *Materials Research Bulletin*, **2014**, 50, 279-284	5.1	49
441	Luminescence spectroscopy of Eu3+ in Ca3Sc2Si3O12. *Journal of Luminescence*, **2011**, 131, 1026-1028	3.8	49
440	Non-resonant energy transfer between Tb3+and Eu3+in the cubic hexachloroelpasolite crystals Cs2NaTb1-xEuxCl6(x=0.01-0.15). *Journal of Physics Condensed Matter*, **1990**, 2, 8417-8426	1.8	49
439	f□ Luminescence of Pr3+ and Ce3+ in the chloro-elpasolite Cs2NaYCl6. *Chemical Physics Letters*, **1999**, 311, 167-172	2.5	48
438	Optical spectroscopy of Nd^3+ in KLa(MoO_4)_2 crystals. *Journal of the Optical Society of America B: Optical Physics*, **1999**, 16, 1958	1.7	48
437	White light generation in Dy3+-and Ce3+/Dy3+-doped zinc□odium□luminosilicate glasses. *Journal of Luminescence*, **2015**, 167, 327-332	3.8	47
436	Temperature dependence and temporal dynamics of Mn2+ upconversion luminescence sensitized by Yb3+ in codoped LaMgAl11O19. *Physical Review B*, **2010**, 82,	3.3	47
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434	Nanocrystalline lanthanide-doped Lu3Ga5O12 garnets: interesting materials for light-emitting devices. *Nanotechnology*, **2010**, 21, 175703	3.4	46
433	Rare-earth doped tungsten tellurite glasses and waveguides: fabrication and characterization. *Journal of Non-Crystalline Solids*, **2004**, 345-346, 343-348	3.9	46

432	Ferromagnetism on a paramagnetic host background: the case of rutile TM:TiO(2) single crystals (TM = Cr, Mn, Fe, Co, Ni, Cu). *Journal of Physics Condensed Matter*, **2006**, 18, 7643-50	1.8	45
431	Growth, optical spectroscopy and crystal field investigation of YAl3(BO3)4 single crystals doped with tripositive praseodymium. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2001**, 57, 1981-90	4.4	45
430	Investigation on lanthanide-doped Y2O3 nanopowders obtained by wet chemical synthesis. *Journal of Materials Chemistry*, **2002**, 12, 742-747		45
429	Development of a terbium-lithium glass for slow neutron detection. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **1995**, 359, 547-550	1.2	45
428	Composition and concentration dependence of spectroscopic properties of Nd3+-doped tellurite and metaborate glasses. *Optical Materials*, **2011**, 33, 928-936	3.3	44
427	Phonon sidebands and vibrational properties of Eu3+ doped lead germanate glasses. *Journal of Non-Crystalline Solids*, **1997**, 217, 111-114	3.9	44
426	Multiphonon relaxation in YVO4 single crystals. *Physical Review B*, **2000**, 61, 3915-3921	3.3	44
425	Weak thermal quenching of the luminescence in the Ca3Sc2Si3O12:Ce3+ garnet phosphor. *Journal of Materials Chemistry C*, **2018**, 6, 8923-8933	7.1	43
424	XPS and UV–VIS study of high-purity Fe2O3 thin films obtained using the sol–gel technique. *Journal of Materials Chemistry*, **1995**, 5, 79-83		43
423	Assessing Single Upconverting Nanoparticle Luminescence by Optical Tweezers. *Nano Letters*, **2015**, 15, 5068-74	11.5	42
422	Room-temperature green upconversion luminescence in LaMgAl11O19:Mn2+, Yb3+ upon infrared excitation. *Applied Physics Letters*, **2009**, 95, 091913	3.4	42
421	Synthesis, characterisation and optical properties of nanocrystalline Y2O3:Eu3+ dispersed in a silica matrix by a deposition–precipitation method. *Journal of Materials Chemistry*, **2003**, 13, 3079-3084		42
420	Synthesis of Variable-Sized Fe3O4 Nanocrystals by Visible Light Irradiation at Room Temperature. *Journal of Physical Chemistry C*, **2010**, 114, 13409-13413	3.8	41
419	Intervalence charge transfer in Pr3+- and Tb3+-doped double tungstate crystals KRE(WO4)2 (RE=Y, Gd, Yb, Lu). *Optical Materials*, **2010**, 32, 1659-1663	3.3	41
418	Synthesis, EXAFS investigation and optical spectroscopy of nanocrystalline Gd3Ga5O12 doped with Ln3+ ions (Ln=Eu, Pr). *Optical Materials*, **2008**, 30, 1162-1167	3.3	41
417	Phase transition in SrxBa1−xNb2O6ferroelectric crystals probed by Raman spectroscopy. *Journal Physics D: Applied Physics*, **2006**, 39, 4930-4934	3	41
416	A comparative analysis of basic pattern recognition techniques for the development of small size electronic nose. *Sensors and Actuators B: Chemical*, **2002**, 85, 137-144	8.5	41
415	Absorption and luminescence spectroscopy of Nd3+ and Er3+ in a zinc borate glass. *Solid State Communications*, **1996**, 97, 521-525	1.6	41

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413	Radioluminescence Sensitization in Scintillators and Phosphors: Trap Engineering and Modeling. *Journal of Physical Chemistry C*, **2014**, 118, 9670-9676	3.8	40
412	Visible luminescence of lanthanide ions in Ca3Sc2Si3O12 and Ca3Y2Si3O12. *Journal of Rare Earths*, **2009**, 27, 555-559	3.7	40
411	Photocatalytic, spectroscopic and transport properties of lanthanide-doped TiO2nanocrystals. *Journal of Physics Condensed Matter*, **2006**, 18, S2149-S2160	1.8	40
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409	Experimental and theoretical investigation of the 4fn<-Hfn-15d transitions in YPO4:Pr3+and YPO4:Pr3+, Ce3+. *Journal of Physics Condensed Matter*, **2001**, 13, 765-776	1.8	39
408	Yttria-based nano-sized powders: A new class of fractal materials obtained by combustion synthesis. *Journal of Materials Research*, **2000**, 15, 586-589	2.5	39
407	White light generation in Tb3+/Eu3+/Dy3+ triply-doped Zn(PO3)2 glass. *Optical Materials*, **2016**, 51, 128-132	3.3	38
406	Raman and low frequency Raman spectroscopy of lead, zinc and barium metaphosphate glasses doped with Eu3+ions. *Journal of Physics Condensed Matter*, **1994**, 6, 275-283	1.8	38
405	Spectroscopic evaluation of Zn(PO3)2:Dy3+ glass as an active medium for solid state yellow laser. *Optical Materials*, **2014**, 38, 188-192	3.3	37
404	Structural and optical properties of Vernier phase lutetium oxyfluorides doped with lanthanide ions: interesting candidates as scintillators and X-ray phosphors. *Journal of Materials Chemistry*, **2012**, 22, 10639		37
403	Investigation of the upconversion processes in nanocrystalline Gd3Ga5O12:Ho3+. *Journal of Luminescence*, **2004**, 106, 263-268	3.8	37
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401	Structural and luminescence investigation on gadolinium gallium garnet nanocrystalline powders prepared by solution combustion synthesis. *Nanotechnology*, **2007**, 18, 325604	3.4	36
400	A Novel Approach to Synthesizing Calcium Copper Titanate Thin Films with Giant Dielectric Constants. *Advanced Materials*, **2004**, 16, 891-895	24	36
399	Phase Stability of Lanthanum Orthovanadate at High Pressure. *Journal of Physical Chemistry C*, **2016**, 120, 13749-13762	3.8	36
398	Energy transfer processes in Sr3Tb0.90Eu0.10(PO4)3. *Optical Materials*, **2010**, 33, 119-122	3.3	35
397	Optical and luminescence properties of Nd3+ions in KBaAl-phosphate and fluorophosphate glasses. *Journal of Physics Condensed Matter*, **2006**, 18, 165-179	1.8	35

396	Beneficial effect of Lu3+ and Yb3+ ions in UV laser materials. *Optical Materials*, **2003**, 22, 147-154	3.3	35
395	Color Control of Pr Luminescence by Electron-Hole Recombination Energy Transfer in CaTiO and CaZrO. *Journal of Physical Chemistry Letters*, **2017**, 8, 3095-3100	6.4	34
394	Optical spectroscopy of Tm3+ doped in KLa(MoO4)2 crystals. *Journal of Physics and Chemistry of Solids*, **1997**, 58, 587-595	3.9	34
393	Spectral hole-burning spectroscopy in Nd3+:YVO4. *Physical Review B*, **2008**, 77,	3.3	34
392	Luminescence and optical absorption properties of Nd(3+) ions in K-Mg-Al phosphate and fluorophosphate glasses. *Journal of Physics Condensed Matter*, **2006**, 18, 3975-91	1.8	34
391	Synthesis and characterization of nanophasic LaCoO3 powders. *Surface and Interface Analysis*, **2002**, 34, 112-115	1.5	34
390	White light generation through Zn(PO3)2 glass activated with Eu3+ and Dy3+. *Journal of Luminescence*, **2016**, 176, 235-239	3.8	34
389	Structural, optical and sensing properties of novel Eu(III) complexes with furan- and pyridine-based ligands. *Dalton Transactions*, **2015**, 44, 182-92	4.3	33
388	NIR-to-visible and NIR-to-NIR upconversion in lanthanide doped nanocrystalline GdOF with trigonal structure. *Optical Materials*, **2011**, 33, 1500-1505	3.3	33
387	An Experimental and Theoretical Study of the Electronic Structure of Zinc Thiophenolate-Capped Clusters. *Inorganic Chemistry*, **1997**, 36, 4707-4716	5.1	33
386	A one-step solvothermal route for the synthesis of nanocrystalline anatase TiO2 doped with lanthanide ions. *Journal of Solid State Chemistry*, **2006**, 179, 2452-2457	3.3	33
385	Characterization of ion-exchanged waveguides in tungsten tellurite and zinc tellurite Er3+-doped glasses. *Optical Engineering*, **2003**, 42, 2805	1.1	33
384	Spectroscopic characterization and optical waveguide fabrication in Ce3+, Tb3+ and Ce3+/Tb3+ doped zinc sodium aluminosilicate glasses. *Optical Materials*, **2011**, 33, 1892-1897	3.3	32
383	Local structure of the Ce3+ ion in the yellow emitting phosphor YAG:Ce. *Optical Materials*, **2011**, 34, 19-22	3.3	32
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