

# Rafael Valiente

## List of Publications by Year in descending order

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143  
papers

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159525

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149  
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3667  
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#	ARTICLE	IF	CITATIONS
1	Origin of the High Upconversion Green Luminescence Efficiency in $\text{Er}^{3+}$ -Doped $\text{NaYF}_4$ : $2\% \text{Er}^{3+}$ , $20\% \text{Yb}^{3+}$ . Chemistry of Materials, 2011, 23, 3442-3448.	3.2	213
2	Upconversion Luminescence in Nanocrystals of $\text{Gd}_3\text{Ga}_5\text{O}_{12}$ and $\text{Y}_3\text{Al}_5\text{O}_{12}$ Doped with $\text{Tb}^{3+}$ and $\text{Yb}^{3+}$ . Journal of Physical Chemistry C, 2009, 113, 12195-12200.	1.5	88
3	Luminescence upconversion mechanisms in $\text{Yb}^{3+}$ - $\text{Tb}^{3+}$ systems. Journal of Luminescence, 2001, 94-95, 305-309.	1.5	80
4	Electron-phonon coupling in charge-transfer and crystal-field states of Jahn-Teller $\text{CuCl}_6$ systems. Physical Review B, 1999, 60, 9423-9429.	1.1	74
5	Simulating Energy Transfer and Upconversion in $\text{NaYF}_4$ : $\text{Yb}^{3+}$ , $\text{Tm}^{3+}$ . Journal of Physical Chemistry C, 2015, 119, 23648-23657.	1.5	72
6	Multiwalled Carbon Nanotubes Display Microtubule Biomimetic Properties <i>in Vivo</i> , Enhancing Microtubule Assembly and Stabilization. ACS Nano, 2012, 6, 6614-6625.	7.3	71
7	Synthesis, structure and luminescence of $\text{Er}^{3+}$ -doped $\text{Y}_3\text{Ga}_5\text{O}_{12}$ nano-garnets. Journal of Materials Chemistry, 2012, 22, 13788.	6.7	62
8	Exchange-Induced Upconversion in $\text{Rb}_2\text{MnCl}_4$ : $\text{Yb}^{3+}$ . Journal of Physical Chemistry B, 2002, 106, 10051-10057.	1.2	61
9	New photon upconversion processes in $\text{Yb}^{3+}$ doped $\text{CsMnCl}_3$ and $\text{RbMnCl}_3$ . Chemical Physics Letters, 2000, 320, 639-644.	1.2	57
10	Nano-ZnO leads to tubulin microtubule assembly and actin bundling, triggering cytoskeletal catastrophe and cell necrosis. Nanoscale, 2016, 8, 10963-10973.	2.8	57
11	Spectroscopic study of $\text{Cu}^{2+}/\text{Cu}^{+}$ doubly doped and highly transmitting glasses for solar spectral transformation. Solar Energy Materials and Solar Cells, 2011, 95, 2018-2022.	3.0	56
12	Green and Red Light Emission by Upconversion from the near-IR in $\text{Yb}^{3+}$ Doped $\text{CsMnBr}_3$ . Inorganic Chemistry, 2001, 40, 4534-4542.	1.9	55
13	Carbon implanted waveguides in soda lime glass doped with $\text{Yb}^{3+}$ and $\text{Er}^{3+}$ for visible light emission. Optics and Laser Technology, 2016, 79, 132-136.	2.2	55
14	Exchange Interactions at the Origin of Slow Relaxation of the Magnetization in $\{\text{TbCu}_3\}$ and $\{\text{DyCu}_3\}$ Single-Molecule Magnets. Inorganic Chemistry, 2014, 53, 8970-8978.	1.9	54
15	Effect of pressure on the band gap and the local $\text{FeO}_6$ environment in $\text{BiFeO}_3$ . Physical Review B, 2012, 85, .	1.1	53
16	Cooperative $\text{Yb}^{3+}$ - $\text{Tb}^{3+}$ dimer excitations and upconversion in $\text{Cs}_3\text{Tb}_2\text{Br}_9$ : $\text{Yb}^{3+}$ . Physical Review B, 2003, 67, .	1.1	51
17	Near-infrared-to-visible photon upconversion process induced by exchange interactions in $\text{Yb}^{3+}$ -doped $\text{RbMnCl}_3$ . Physical Review B, 2001, 63, .	1.1	48
18	Influence of hydrostatic pressure on the Jahn-Teller effect in the $4T_2g$ excited state of $\text{CrCl}_6$ doped $\text{Cs}_2\text{NaScCl}_6$ . Journal of Chemical Physics, 2001, 115, 3819-3826.	1.2	48

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19	Temperature dependence and temporal dynamics of $Mn^{2+}$ luminescence sensitized by $Yb^{3+}$ . Physical Review B, 2010, 82, .	1.1	48
20	Room-temperature green upconversion luminescence in LaMgAl <sub>11</sub> O <sub>19</sub> :Mn <sup>2+</sup> , Yb <sup>3+</sup> upon infrared excitation. Applied Physics Letters, 2009, 95, .	1.5	44
21	Upconversion luminescence in Yb <sup>3+</sup> doped CsMnCl <sub>3</sub> : Spectroscopy, dynamics, and mechanisms. Journal of Chemical Physics, 2002, 116, 5196.	1.2	43
22	Pressure effects on Jahn-Teller distortion in perovskites: The roles of local and bulk compressibilities. Physical Review B, 2012, 85, .	1.1	42
23	Multiwalled Carbon Nanotubes Hinder Microglia Function Interfering with Cell Migration and Phagocytosis. Advanced Healthcare Materials, 2014, 3, 424-432.	3.9	42
24	Polarized electronic spectra of the (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> Cd <sub>1-x</sub> Mn <sub>x</sub> Cl <sub>4</sub> (x = 0-1) perovskite layer doped with Cu <sup>2+</sup> : Study of the Cl <sup>-</sup> Cu <sup>2+</sup> charge transfer intensity enhancement along the series. Journal of Physics and Chemistry of Solids, 1996, 57, 571-587.	1.9	38
25	Organic-Inorganic Hybrids Assembled from Lanthanide and 1,4-Phenylenebis(phosphonate). Crystal Growth and Design, 2011, 11, 5289-5297.	1.4	34
26	Effect of TiO <sub>2</sub> and ZnO Nanoparticles on the Performance of Dielectric Nanofluids Based on Vegetable Esters During Their Aging. Nanomaterials, 2020, 10, 692.	1.9	34
27	Temperature and pressure dependence of the optical properties of Cr <sup>3+</sup> -doped Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> nanoparticles. Nanotechnology, 2011, 22, 265707.	1.3	33
28	Bulk and Molecular Compressibilities of Organic-Inorganic Hybrids [(CH <sub>3</sub> ) <sub>3</sub> N] <sub>2</sub> MnX <sub>4</sub> (X = Cl, Br); Role of Intermolecular Interactions. Inorganic Chemistry, 2014, 53, 10708-10715.	1.9	33
29	Low-temperature liquid-phase epitaxy and optical waveguiding of rare-earth-ion-doped KY(WO <sub>4</sub> ) <sub>2</sub> thin layers. Journal of Crystal Growth, 2004, 269, 377-384.	0.7	32
30	Phonon-assisted cooperative sensitization of Tb <sup>3+</sup> in SrCl <sub>2</sub> :Yb, Tb. Journal of Physics Condensed Matter, 2002, 14, 5461-5475.	0.7	31
31	Pressure-induced Pr <sup>3+</sup> 3P <sub>0</sub> luminescence in cubic Y <sub>2</sub> O <sub>3</sub> . Journal of Luminescence, 2014, 146, 27-32.	1.5	31
32	Optical spectroscopy of Al <sub>2</sub> O <sub>3</sub> :Ti <sup>3+</sup> single crystal under hydrostatic pressure. The influence on the Jahn-Teller coupling. Journal of Physics Condensed Matter, 2002, 14, 447-459.	0.7	30
33	Multiwalled Carbon Nanotubes Inhibit Tumor Progression in a Mouse Model. Advanced Healthcare Materials, 2016, 5, 1080-1087.	3.9	30
34	Pressure-induced switching in a copper(ii) citrate dimer. CrystEngComm, 2010, 12, 2516.	1.3	29
35	Pressure-induced phase-transition sequence in CoF <sub>2</sub> : An experimental and first-principles study on the crystal, vibrational, and electronic properties. Physical Review B, 2013, 88, .	1.1	29
36	Inhibition of Cancer Cell Migration by Multiwalled Carbon Nanotubes. Advanced Healthcare Materials, 2015, 4, 1640-1644.	3.9	29

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37	Modeling blue to UV upconversion in $\text{NaYF}_4:\text{Tm}^{3+}$ . Physical Chemistry Chemical Physics, 2016, 18, 27396-27404.	1.3	29
38	Near-infrared to green photon upconversion in $\text{Mn}^{2+}$ and $\text{Yb}^{3+}$ doped lattices. Chemical Physics Letters, 2004, 386, 132-136.	1.2	28
39	Upconversion phenomena in the $\text{Yb}^{3+}$ doped transition metal compounds $\text{Rb}_2\text{MnCl}_4$ and $\text{CsMnBr}_3$ . Journal of Luminescence, 2001, 94-95, 331-335.	1.5	26
40	High pressure optical spectroscopy of $\text{Ce}^{3+}$ -doped $\text{Cs}_2\text{NaLuCl}_6$ . Chemical Physics Letters, 2009, 481, 149-151.	1.2	25
41	Anti-Cancer Cytotoxic Effects of Multiwalled Carbon Nanotubes. Current Pharmaceutical Design, 2015, 21, 1920-1929.	0.9	25
42	Multi-walled carbon nanotubes complement the anti-tumoral effect of 5-Fluorouracil. Oncotarget, 2019, 10, 2022-2029.	0.8	25
43	Three-dimensional magnetic ordering in the $\text{Rb}_2\text{CuCl}_4$ layer perovskite structural correlations. Journal of Physics Condensed Matter, 2004, 16, 1927-1938.	0.7	24
44	Pressure dependence of $\text{Pt}(\text{2,2}'\text{-bipyridine})\text{Cl}_2$ luminescence. The red complex converts to a yellow form at 17.5 kbar. Chemical Physics Letters, 2004, 384, 190-192.	1.2	24
45	Resonance in $\text{Er}^{3+}$ ions in $\text{Y}_3\text{Ga}_5\text{O}_{12}$ nano-garnets. RSC Advances, 2014, 4, 57691-57701.	1.1	24
46	Experiments with the drinking bird. American Journal of Physics, 2003, 71, 1257-1263.	0.3	23
47	Biodegradable multi-walled carbon nanotubes trigger anti-tumoral effects. Nanoscale, 2018, 10, 11013-11020.	2.8	23
48	Electronic structure of $\text{Ag}^{2+}$ -impurities in halide lattices. Journal of Physics Condensed Matter, 1994, 6, 4515-4525.	0.7	22
49	Optical nanothermometer based on the calibration of the Stokes and upconverted green emissions of $\text{Er}^{3+}$ ions in $\text{Y}_3\text{Ga}_5\text{O}_{12}$ nano-garnets. RSC Advances, 2014, 4, 57691-57701.	1.7	22
50	$\text{Eu}^{3+}$ Luminescence in High Charge Mica: An In Situ Probe for the Encapsulation of Radioactive Waste in Geological Repositories. ACS Applied Materials & Interfaces, 2019, 11, 7559-7565.	4.0	22
51	Dye-doped biodegradable nanoparticle $\text{SiO}_2$ coating on zinc- and iron-oxide nanoparticles to improve biocompatibility and for <i>in vivo</i> imaging studies. Nanoscale, 2020, 12, 6164-6175.	2.8	22
52	Tris(bipyridine)Metal(II)-Templated Assemblies of 3D Alkali-Ruthenium Oxalate Coordination Frameworks: Crystal Structures, Characterization and Photocatalytic Activity in Water Reduction. Polymers, 2016, 8, 48.	2.0	21
53	Optical spectroscopy of the $\text{Ni}^{2+}$ -doped layer perovskites $\text{Rb}_2\text{MCl}_4$ ( $\text{M}=\text{Cd}, \text{Mn}$ ): Effects of $\text{Ni}^{2+}$ and $\text{Mn}^{2+}$ exchange interactions on the $\text{Ni}^{2+}$ -absorption, luminescence, and upconversion properties. Physical Review B, 2001, 64, .	1.1	20
54	$\text{Er}^{3+}$ luminescence as a sensor of high pressure and strong external magnetic fields. High Pressure Research, 2009, 29, 748-753.	0.4	20

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55	Spectroscopic study of Cu <sup>2+</sup> and Cu <sup>+</sup> ions in high-transmission glass. Electronic structure and Cu <sup>2+</sup> /Cu <sup>+</sup> concentrations. Journal of Physics Condensed Matter, 2010, 22, 295505.	0.7	20
56	Self-assembly of ultra-thin lanthanide oxide nanowires via surfactant-mediated imperfect oriented attachment of nanoparticles. CrystEngComm, 2012, 14, 7110.	1.3	20
57	Single-crystal growth and properties of AgCd <sub>2</sub> Ga <sub>4</sub> S <sub>4</sub> . Journal of Crystal Growth, 2005, 279, 140-145.	0.7	19
58	Photoluminescence in ZnO:Co <sup>2+</sup> (0.01%–5%) Nanoparticles, Nanowires, Thin Films, and Single Crystals as a Function of Pressure and Temperature: Exploring Electron–Phonon Interactions. Chemistry of Materials, 2014, 26, 1100-1107.	3.2	19
59	Pressure-induced Jahn-Teller suppression in Rb <sub>2</sub> CuCl <sub>4</sub> (H <sub>2</sub> O) <sub>2</sub> : Pseudo-Jahn-Teller effect. Physical Review B, 2004, 70, .	1.1	18
60	Optical properties of nanocrystalline-coated Y <sub>2</sub> O <sub>3</sub> :Er <sup>3+</sup> , Yb <sup>3+</sup> obtained by mechano-chemical and combustion synthesis. Journal of Luminescence, 2009, 129, 1109-1114.	1.5	18
61	Unraveling the Coordination Geometry of Copper(II) Ions in Aqueous Solution through Absorption Intensity. Angewandte Chemie - International Edition, 2012, 51, 9335-9338.	7.2	18
62	Effects of chemical pressure on the charge-transfer spectra of complexes formed in -doped (M = Zn, Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.7	17
63	Temporal dynamics of upconversion luminescence in Er <sup>3+</sup> , Yb <sup>3+</sup> co-doped crystalline KY(WO <sub>4</sub> ) <sub>2</sub> thin films. Journal of Luminescence, 2008, 128, 934-936.	1.5	17
64	Crystal-Field Theory Validity Through Local (and Bulk) Compressibilities in Co <sub>2</sub> and KCo <sub>3</sub> . Journal of Physical Chemistry C, 2016, 120, 18788-18793.	1.5	17
65	Pressure-and temperature induced phase transitions, piezochromism, NLC behaviour and pressure controlled Jahn–Teller switching in a Cu-based framework. Chemical Science, 2020, 11, 8793-8799.	3.7	17
66	Upconversion and Optical Nanothermometry in LaGdO <sub>3</sub> : Er <sup>3+</sup> Nanocrystals in the RT to 900 K Range. Journal of Physical Chemistry C, 2019, 123, 29818-29828.	1.5	16
67	Luminescence upconversion under hydrostatic pressure in the 3d-metal systems Ti <sup>2+</sup> :NaCl and Ni <sup>2+</sup> :CsCdCl <sub>3</sub> . Physical Review B, 2002, 65, .	1.1	15
68	Variation of the Jahn–Teller distortion with pressure in perovskite layers A <sub>2</sub> CuCl <sub>4</sub> . Influence on the charge-transfer band. Physica Status Solidi (B): Basic Research, 2007, 244, 156-161.	0.7	15
69	High-pressure crystallographic and spectroscopic studies on two molecular dithienylethene switches. CrystEngComm, 2014, 16, 2119-2128.	1.3	15
70	Yb <sup>3+</sup> -sensitized visible Ni <sup>2+</sup> photon upconversion in codoped CsCdBr <sub>3</sub> and CsMgBr <sub>3</sub> . Physical Review B, 2005, 72, .	1.1	14
71	Red–Yellow Pressure-Induced Phase Transition in Pt(bpy)Cl <sub>2</sub> : Spectroscopic Study Supported by DFT Calculations. European Journal of Inorganic Chemistry, 2007, 2007, 5735-5742.	1.0	14
72	Reversibility of the zinc-blende to rock-salt phase transition in cadmium sulfide nanocrystals. Journal of Applied Physics, 2012, 111, .	1.1	14

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73	Maghemite Nanofluid Based on Natural Ester: Cooling and Insulation Properties Assessment. IEEE Access, 2019, 7, 145851-145860.	2.6	14
74	Is it possible to use Charge Transfer Bands to Measure Impurity-Ligand Distances? Experimental and Theoretical Results on Cu <sup>2+</sup> Doped (C <sub>2</sub> H <sub>5</sub> NH <sub>3</sub> ) <sub>2</sub> CdCl <sub>4</sub> . High Pressure Research, 2002, 22, 475-478.	0.4	13
75	Visible Ni <sup>2+</sup> upconversion luminescence in Ni <sup>2+</sup> , Yb <sup>3+</sup> co-doped CsCdBr <sub>3</sub> . Chemical Physics Letters, 2005, 401, 492-496.	1.2	13
76	Optical characterization of fourfold (Td)- and sixfold (Oh)-transition-metal species in MgAl <sub>2</sub> O <sub>4</sub> :Co <sup>2+</sup> by time-resolved spectroscopy. Journal of Luminescence, 2009, 129, 1602-1605.	1.5	13
77	Magnetic Properties of a Family of [Mn <sup>III</sup> ] <sub>4</sub> Ln <sup>III</sup> <sub>4</sub> Wheel Complexes: An Experimental and Theoretical Study. Inorganic Chemistry, 2019, 58, 13815-13825.	1.9	13
78	A Comparative Study on Luminescence Properties of Y <sub>2</sub> O <sub>3</sub> : Pr <sup>3+</sup> Nanocrystals Prepared by Different Synthesis Methods. Nanomaterials, 2020, 10, 1574.	1.9	13
79	Polarized charge transfer spectroscopy of Cu <sup>2+</sup> -in doped one-dimensional [N(CH <sub>3</sub> ) <sub>4</sub> ]CdCl <sub>3</sub> and [N(CH <sub>3</sub> ) <sub>4</sub> ]CdBr <sub>3</sub> crystals. Journal of Physics Condensed Matter, 1994, 6, 4527-4540.	0.7	12
80	Charge-transfer spectra and dynamics of CuBr <sub>4</sub> <sup>2-</sup> -in (N(CH <sub>3</sub> ) <sub>4</sub> ) <sub>2</sub> CdBr <sub>4</sub> :Cu <sup>2+</sup> crystals: a new first-order phase transition at T <sub>c</sub> = 20 K. Journal of Physics Condensed Matter, 1995, 7, 3881-3894.	0.7	12
81	Luminescence Upconversion Under High Pressure in Ni <sup>2+</sup> Doped CsCdCl <sub>3</sub> . High Pressure Research, 2002, 22, 57-62.	0.4	12
82	Spectroscopic and luminescence properties of (CH <sub>3</sub> ) <sub>4</sub> NMnCl <sub>3</sub> : a sensitive Mn <sup>2+</sup> -based pressure gauge. High Pressure Research, 2009, 29, 653-659.	0.4	12
83	The effect of pressure on the crystal structure of bianthrone. Acta Crystallographica Section B: Structural Science, 2011, 67, 226-237.	1.8	12
84	Nd <sup>3+</sup> -Doped Lanthanum Oxychloride Nanocrystals as Nanothermometers. Journal of Physical Chemistry C, 2021, 125, 19887-19896.	1.5	12
85	An insight into optical and EPR properties of AgCl <sub>6</sub> <sup>4-</sup> and AgF <sub>6</sub> <sup>4-</sup> complexes through MS-X <sup>2</sup> and SCCEH calculations. International Journal of Quantum Chemistry, 1994, 52, 1051-1065.	1.0	11
86	Pressure dependence of Raman modes in double wall carbon nanotubes filled with 1D Tellurium. Carbon, 2010, 48, 2566-2572.	5.4	11
87	The Effect of Pressure on Halogen Bonding in 4-Iodobenzonitrile. Molecules, 2019, 24, 2018.	1.7	11
88	Targeting Nanomaterials to Head and Neck Cancer Cells Using a Fragment of the Shiga Toxin as a Potent Natural Ligand. Cancers, 2021, 13, 4920.	1.7	11
89	Understanding the Efficiency of Mn <sup>4+</sup> Phosphors: Study of the Spinel Mg <sub>2</sub> Ti <sub>1-x</sub> Mn <sub>x</sub> O <sub>4</sub> . Journal of Physical Chemistry C, 2021, 125, 27118-27129.	1.5	11
90	Polarized charge transfer spectra of Cu <sup>2+</sup> -doped perovskite layers (RNH <sub>3</sub> ) <sub>2</sub> Cd <sub>x</sub> Mn <sub>1-x</sub> Cl <sub>4</sub> (x = 0-1). Radiation Effects and Defects in Solids, 1995, 135, 89-94.	0.4	10

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91	Effect of pressure on the Cl <sup>-</sup> →Cu <sup>2+</sup> charge transfer in A <sub>2</sub> CuCl <sub>4</sub> layer perovskites (A=CnH <sub>2n+1</sub> NH <sub>3</sub> , n=2,) Tj ETQq1 1 0.784314 rgBT / Overlock	1.3	10
92	Low-temperature flux growth of sulfates, molybdates, and tungstates of Ca, Sr, and Ba and investigation of doping with Mn <sup>6+</sup> . Applied Physics A: Materials Science and Processing, 2004, 79, 613-618.	1.1	10
93	A study of Ce <sup>3+</sup> to Mn <sup>2+</sup> energy transfer in high transmission glasses using time-resolved spectroscopy. Journal of Materials Chemistry C, 2016, 4, 9021-9026.	2.7	10
94	Highly efficient photoluminescence from isolated Eu <sup>3+</sup> ions embedded in high-charge mica. Journal of Materials Chemistry C, 2017, 5, 10360-10368.	2.7	10
95	Optical spectroscopy of (C <sub>2</sub> H <sub>5</sub> NH <sub>3</sub> ) <sub>2</sub> CdCl <sub>4</sub> :Cu <sup>2+</sup> under pressure: Study of Cu <sup>2+</sup> local structure from theoretical calculations. International Journal of Quantum Chemistry, 2002, 86, 239-244.	1.0	9
96	Engineering Sub-Cellular Targeting Strategies to Enhance Safe Cytosolic Silica Particle Dissolution in Cells. Pharmaceutics, 2020, 12, 487.	2.0	9
97	Optical spectroscopy of the Sr <sub>4</sub> Al <sub>14</sub> O <sub>25</sub> :Mn <sup>4+</sup> ,Cr <sup>3+</sup> phosphor: pressure and temperature dependences. Journal of Materials Chemistry C, 2022, 10, 6380-6391.	2.7	9
98	Study of Bidimensional (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> CdCl <sub>4</sub> :Cu <sup>2+</sup> and (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> CuCl <sub>4</sub> :. <a href="https://doi.org/10.1021/acsphoton.2c01729">https://doi.org/10.1021/acsphoton.2c01729</a>	0.3	8
99	Photoluminescence quenching in MgAl <sub>2</sub> O <sub>4</sub> :Cr <sup>3+</sup> . <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a>	1.1	8
100	Phase transition sequences in tetramethylammonium tetrachlorometallates by X-ray diffraction and spectroscopic measurements. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 844-855.	0.5	8
101	Solid Lipid Particles for Lung Metastasis Treatment. Pharmaceutics, 2021, 13, 93.	2.0	8
102	Solarization-induced redox reactions in doubly Ce <sup>3+</sup> /Mn <sup>2+</sup> -doped highly transmission glasses studied by optical absorption and photoluminescence. Solar Energy Materials and Solar Cells, 2016, 157, 42-47.	3.0	7
103	A custom-made functionalization method to control the biological identity of nanomaterials. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 29, 102268.	1.7	7
104	Optical properties of TMA <sub>2</sub> CdBr <sub>4</sub> and TMA <sub>2</sub> MnBr <sub>4</sub> . Solid State Communications, 1993, 86, 663-666.	0.9	6
105	Variation of the Jahn-Teller distortion with pressure in the layered perovskite Rb <sub>2</sub> CuCl <sub>4</sub> : local and crystal compressibilities. Journal of Physics Condensed Matter, 2007, 19, 346229.	0.7	6
106	Time-resolved spectroscopy in LiCaAlF <sub>6</sub> doped with Cr <sup>3+</sup> : dynamical Jahn-Teller effect and thermal shifts associated with the <sup>4</sup> F <sub>2</sub> excited state. Journal of Physics Condensed Matter, 2010, 22, 125502.	0.7	6
107	Doping and pressure on the exchange-mediated exciton dynamics in one-dimensional N(CH <sub>3</sub> ) <sub>4</sub> Tj ETQq1 1 0.784314 rgBT / Overlock	1.1	6
108	Structural Metastability and Quantum Confinement in Zn <sub>1-x</sub> CoxO Nanoparticles. Nano Letters, 2016, 16, 5204-5212.	4.5	6



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109	Local Structure of Cu <sup>2+</sup> in the (C <sub>2</sub> H <sub>5</sub> NH <sub>3</sub> ) <sub>2</sub> MCl <sub>4</sub> :Cu <sup>2+</sup> (M = Cd, Mn) Layer Perovskites. Influence of Hydrostatic Pressure in the 0–60 kbar Range*. Zeitschrift Fur Physikalische Chemie, 1997, 201, 151-158.	1.4	5
110	f <sup>d</sup> transitions and self-trapped excitons in CsCdBr <sub>3</sub> :Eu <sup>2+</sup> . Journal of Physics Condensed Matter, 2006, 18, 11139-11148.	0.7	5
111	Nanocrystals of ZnO formed by the hot isostatic pressure method. High Pressure Research, 2009, 29, 594-599.	0.4	5
112	Optical energy gap on zinc-blende CdS nanoparticles under high pressure. High Pressure Research, 2009, 29, 482-487.	0.4	5
113	Control of infrared cross-relaxation in LiNbO <sub>3</sub> :Tm <sup>3+</sup> through high-pressure. Optical Materials Express, 2015, 5, 1168.	1.6	5
114	Origin of the piezochromism in $CsMn_2Cl_4$ : Electron-phonon and crystal-structure correlations. Physical Review B, 2019, 99, .		
115	Structural Correlations in Jahn-Teller Systems of Mn <sup>3+</sup> and Cu <sup>2+</sup> : Unraveling Local Structures through Spectroscopic Techniques. Journal of Physical Chemistry C, 2020, 124, 22692-22703.	1.5	5
116	Photocatalytic activity of undoped and Mn- and Co-doped TiO <sub>2</sub> nanocrystals incorporated in enamel coatings on stainless steel. Reaction Chemistry and Engineering, 0, .	1.9	5
117	Thermochromic properties of the ferroelectric -doped : study of the temperature-induced dichroism. Journal of Physics Condensed Matter, 1999, 11, 2595-2606.	0.7	4
118	Pressure-induced luminescence from broadband to narrow-line emission in Cr <sup>3+</sup> -doped LiCaAlF <sub>6</sub> at room temperature. High Pressure Research, 2006, 26, 345-348.	0.4	4
119	Volume and pressure dependences of the electronic, vibrational, and crystal structures of $CsMn_2Cl_4$ : Identification of a pressure-induced piezochromic phase at high pressure. Physical Review B, 2017, 95, .	1.1	4
120	Pressure-induced closure of the jahn-teller distortion in Rb <sub>2</sub> CuCl <sub>4</sub> (H <sub>2</sub> O) <sub>2</sub> . High Pressure Research, 2003, 23, 181-186.	0.4	3
121	Photoluminescence of MgAl <sub>2</sub> O <sub>4</sub> :Co <sup>2+</sup> through time-resolved spectroscopy under pressure. High Pressure Research, 2008, 28, 553-558.	0.4	3
122	Volume and bond length dependences of the electronic structure of 6-fold and 8-fold coordinated Co <sup>2+</sup> in pressure transformed CoF <sub>2</sub> . Journal of Physics: Conference Series, 2017, 950, 042016.	0.3	3
123	EPR Study of Cu <sup>2+</sup> Doped (C <sub>n</sub> H <sub>2n+1</sub> NH <sub>3</sub> ) <sub>2</sub> CdCl <sub>4</sub> Crystals (n=1;3) with Layer Structure. , 2001, , 221-228.		3
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