

Ulises R RodrÃ-guez-Mendoza

List of Publications by Year in descending order

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106
papers

3,279
citations

145106
33
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53
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all docs

107
docs citations

107
times ranked

2751
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-stimulus semiconductor Cu(I)-pyrimidine coordination polymer with thermo- and mechanochromic sensing. <i>CrystEngComm</i> , 2022, 24, 341-349.	1.3	6
2	Optical Temperature Sensor Capabilities of the Green Upconverted Luminescence of Er ³⁺ in La ₃ NbO ₇ Ceramic Powders. <i>Crystals</i> , 2022, 12, 455.	1.0	3
3	Stokes and upconverted luminescence in Er ³⁺ /Yb ³⁺ -doped Y ₃ Ga ₅ O ₁₂ nano-garnets. <i>Dalton Transactions</i> , 2021, 50, 9512-9518.	1.6	5
4	Statistical learning for the estimation of Judd-Ofelt parameters: A case study of Er ³⁺ : Doped tellurite glasses. <i>Journal of Luminescence</i> , 2021, 235, 118020.	1.5	4
5	1000 Å optical ratiometric thermometer based on Er ³⁺ luminescence in yttrium gallium garnet. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161188.	2.8	12
6	Cu(I)-2,4-diaminopyrimidine Coordination Polymers with Optoelectronic Properties as a Proof of Concept for Solar Cells. <i>Inorganic Chemistry</i> , 2021, 60, 1208-1219.	1.9	11
7	Cunning defects: emission control by structural point defects on Cu(I) double chain coordination polymers. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1448-1458.	2.7	11
8	Raman-IR Spectroscopic Structural Analysis of Rare-Earth (RE ³⁺) Doped Fluorotellurite Glasses at different laser wavelengths. <i>Vibrational Spectroscopy</i> , 2020, 106, 103020.	1.2	11
9	Judd-Ofelt parameters of RE ³⁺ -doped fluorotellurite glass (RE ³⁺ = Pr ³⁺ , Nd ³⁺ , Sm ³⁺ , Tb ³⁺ , Dy ³⁺ , Ho ³⁺ .) <i>Tj ETQq1</i> 1.0.784314 rgBT / 2.8 40	1.8	14
10	Quantum cutting and near-infrared emissions in Ho ³⁺ /Yb ³⁺ codoped transparent glass-ceramics. <i>Journal of Luminescence</i> , 2020, 226, 117424.	1.5	23
11	Structural and Lattice-Dynamical Properties of Tb ₂ O ₃ under Compression: A Comparative Study with Rare Earth and Related Sesquioxides. <i>Inorganic Chemistry</i> , 2020, 59, 9648-9666.	1.9	26
12	Upconversion and luminescence temperature sensitivity of Er ³⁺ ions in yttrium oxysulfate nanophosphor. <i>Optical Materials</i> , 2019, 95, 109197.	1.7	15
13	Polarized Raman analyzes of (RE ³⁺) doped fluorotellurite glass and ceramics. <i>Vibrational Spectroscopy</i> , 2019, 103, 102934.	1.2	6
14	A High-Pressure Investigation of the Synthetic Analogue of Chalcocite, CuSeO ₃ ·2H ₂ O. <i>Crystals</i> , 2019, 9, 643.	1.0	8
15	Equation of state and structural characterization of Cu ₄ l ₄ {PPh ₂ (CH ₂ CH ₂ CH ₂)} ₄ under 5 pressure. <i>High Pressure Research</i> , 2019, 39, 69-80.		
16	Optical temperature sensor based on Sm ³⁺ emissions in a fluorotellurite glass. <i>Optical Fiber Technology</i> , 2019, 47, 178-186.	1.4	20
17	Phase transitions of copper(I) iodide compounds under high pressure. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, e306-e306.	0.0	0
18	High pressure luminescence of Nd ³⁺ in YAlO ₃ perovskite nanocrystals: A crystal-field analysis. <i>Journal of Chemical Physics</i> , 2018, 148, 044201.	1.2	21

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19	High pressure sensitivity of anti-Stokes fluorescence in Nd ³⁺ doped yttrium orthoaluminate nano-perovskites. <i>Journal of Luminescence</i> , 2018, 196, 20-24.	1.5	5
20	Comparison of the sensitivity as optical temperature sensor of nano-perovskite doped with Nd ³⁺ ions in the first and second biological windows. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 970-976.	4.0	110
21	Experimental and theoretical study on the optical properties of LaVO ₄ crystals under pressure. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27314-27328.	1.3	26
22	Lanthanide-doped Y ₃ Ga ₅ O ₁₂ garnets for nanoheating and nanothermometry in the first biological window. <i>Optical Materials</i> , 2018, 84, 46-51.	1.7	25
23	Smart composite films of nanometric thickness based on copper-iodine coordination polymers. Toward sensors. <i>Chemical Science</i> , 2018, 9, 8000-8010.	3.7	44
24	Analysis of the upconversion emission of yttrium orthoaluminate nano-perovskite co-doped with Er ³⁺ /Yb ³⁺ ions for thermal sensing applications. <i>Journal of Luminescence</i> , 2018, 202, 316-321.	1.5	14
25	Up-conversion processes in Ln(III)-doped luminescent materials for photovoltaics and photocatalysis. , 2018, , 291-333.		1
26	Nanoperovskite doped with Yb ³⁺ and Tm ³⁺ ions used as an optical upconversion temperature sensor. <i>Optical Materials</i> , 2018, 83, 187-191.	1.7	9
27	Structural behaviour of copper(I) iodine compounds under high pressure. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, e275-e275.	0.0	0
28	Pressure-induced effects on the spectroscopic properties of Nd ³⁺ in MgO:LiNbO ₃ single crystal. A crystal field approach. <i>Journal of Luminescence</i> , 2017, 184, 293-303.	1.5	6
29	Spectroscopic properties of Nd ³⁺ ions in YAP nano-perovskites. <i>Journal of Luminescence</i> , 2017, 188, 204-208.	1.5	9
30	Multistimuli Response Micro- and Nanolayers of a Coordination Polymer Based on Cu ₂ I ₂ Chains Linked by 2-Aminopyrazine. <i>Small</i> , 2017, 13, 1700965.	5.2	43
31	Structural, Vibrational, and Elastic Properties of Yttrium Orthoaluminate Nanoperovskite at High Pressures. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15353-15367.	1.5	13
32	Yttrium orthoaluminate nanoperovskite doped with Tm ³⁺ ions as upconversion optical temperature sensor in the near-infrared region. <i>Optics Express</i> , 2017, 25, 27845.	1.7	22
33	Random laser action in stoichiometric Nd ₃ Ga ₅ O ₁₂ garnet crystal powder. <i>Laser Physics Letters</i> , 2016, 13, 035402.	0.6	11
34	Stokes and anti-Stokes luminescence in Tm ³⁺ /Yb ³⁺ -doped Lu ₃ Ga ₅ O ₁₂ nano-garnets: a study of multipolar interactions and energy transfer dynamics. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14720-14729.	1.3	19
35	NIR upconversion emission of Tm ³⁺ doped glassceramics for solar cells applications. <i>Journal of Luminescence</i> , 2016, 179, 40-43.	1.5	12
36	2CaO·Al ₂ O ₃ :Er ³⁺ glass: An efficient optical temperature sensor. <i>Journal of Luminescence</i> , 2016, 179, 272-279.	1.5	54

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37	Experimental and <i>ab Initio</i> Study of Catena(bis($\frac{1}{4}$ -iodo)-6-methylquinoline-copper(II)) under Pressure: Synthesis, Crystal Structure, Electronic, and Luminescence Properties. <i>Inorganic Chemistry</i> , 2016, 55, 7476-7484.	1.9	27
38	Pressure-induced amorphization of YVO_4 : Eu^{3+} nanoboxes. <i>Nanotechnology</i> , 2016, 27, 025701.	1.3	19
39	Nd^{3+} -doped TeO_2 - PbF_2 - AlF_3 glasses for laser applications. <i>Optical Materials</i> , 2016, 51, 35-41.	1.7	53
40	Experimental and theoretical study of Eu^{2+} (MoO_4) $_3$ under compression. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 465401.	0.7	5
41	Optical temperature sensor based on the Nd^{3+} infrared thermalized emissions in a fluorotellurite glass. <i>Journal of Luminescence</i> , 2015, 166, 209-214.	1.5	38
42	Chemical pressure effects on the spectroscopic properties of Nd^{3+} -doped gallium nano-garnets. <i>Optical Materials Express</i> , 2015, 5, 1661.	1.6	34
43	Optimizing white light luminescence in Dy^{3+} -doped $\text{Lu}_3\text{Ga}_5\text{O}_{12}$ nano-garnets. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	24
44	Broadband, site selective and time resolved photoluminescence spectroscopic studies of finely size-modulated Y_2O_3 : Eu^{3+} phosphors synthesized by a complex based precursor solution method. <i>Current Applied Physics</i> , 2014, 14, 72-81.	1.1	24
45	Optical nanothermometer based on the calibration of the Stokes and upconverted green emissions of Er^{3+} ions in $\text{Y}_3\text{Ga}_5\text{O}_{12}$ nano-garnets. <i>RSC Advances</i> , 2014, 4, 57691-57701.	1.7	22
46	Formation of nanostructures in Eu^{3+} doped glass-ceramics: an XAS study. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C959-C959.	0.0	0
47	Optical characterization of Er^{3+} -doped zinc fluorophosphate glasses for optical temperature sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 156-164.	4.0	107
48	Formation of nanostructures in Eu^{3+} doped glass-ceramics: an XAS study. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 025303.	0.7	4
49	Effects of Er^{3+} concentration on thermal sensitivity in optical temperature fluorotellurite glass sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 1167-1175.	4.0	137
50	Spectroscopic properties of Sm^{3+} ions in phosphate and fluorophosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2013, 365, 85-92.	1.5	62
51	Nd^{3+} -doped $\text{Ca}_3\text{Ga}_2\text{Ge}_3\text{O}_{12}$ garnet: A new optical pressure sensor. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	37
52	High pressure tuning of whispering gallery mode resonances in a neodymium-doped glass microsphere. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 3254.	0.9	18
53	Optical pressure and temperature sensor based on the luminescence properties of Nd^{3+} ion in a gadolinium scandium gallium garnet crystal. <i>Optics Express</i> , 2012, 20, 10393.	1.7	32
54	Structural and Luminescence Properties of Ho^{3+} ;/ Yb^{3+} -Doped $\text{Lu}_3\text{Ga}_5\text{O}_{12}$ Nano-Garnets for Phosphor Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 4495-4501.	0.9	7

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55	Role of the host matrix on the thermal sensitivity of Er ³⁺ luminescence in optical temperature sensors. <i>Sensors and Actuators B: Chemical</i> , 2012, 174, 176-186.	4.0	168
56	Synthesis, structure and luminescence of Er ³⁺ -doped Y ₃ Ga ₅ O ₁₂ nano-garnets. <i>Journal of Materials Chemistry</i> , 2012, 22, 13788.	6.7	62
57	Er ³⁺ -Yb ³⁺ codoped phosphate glasses used for an efficient 1.5 μ m broadband gain medium. <i>Optical Materials</i> , 2012, 34, 1235-1240.	1.7	69
58	Upconversion mechanisms in rare-earth doped glasses to improve the efficiency of silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1671-1677.	3.0	99
59	Structural study of Eu ₂ (MoO ₄) ₃ and Sm ₂ (MoO ₄) ₃ polymorphs. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, C249-C249.	0.3	0
60	Optical characterization, 1.5 μ m emission and IR-to-visible energy upconversion in Er ³⁺ -doped fluorotellurite glasses. <i>Journal of Luminescence</i> , 2011, 131, 1239-1248.	1.5	66
61	Temperature sensor based on the Er ³⁺ green upconverted emission in a fluorotellurite glass. <i>Sensors and Actuators B: Chemical</i> , 2011, 158, 208-213.	4.0	245
62	Structural study of the Eu ³⁺ environments in fluorozirconate glasses: Role of the temperature-induced and the pressure-induced phase transition processes in the development of a rare earth's local structure model. <i>Journal of Chemical Physics</i> , 2009, 130, 154501.	1.2	21
63	Spectral investigations on Dy ³⁺ -doped transparent oxyfluoride glasses and nanocrystalline glass ceramics. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	69
64	Effect of pressure on the luminescence properties of Nd ³⁺ doped SrWO ₄ laser crystal. <i>Journal of Alloys and Compounds</i> , 2008, 451, 212-214.	2.8	21
65	Effects of Er ³⁺ and Yb ³⁺ doping on non-linear properties of double lithium sulfates. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2008, 64, C468-C468.	0.3	0
66	Evolution of the structural and optical properties from cobalt cordierite glass to glass-ceramic based on spinel crystalline phase materials. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 4093-4101.	1.5	28
67	Dopant partitioning influence on the near-infrared emissions of Tm ³⁺ in oxyfluoride glass ceramics. <i>Journal of Applied Physics</i> , 2006, 99, 053103.	1.1	23
68	Ultraviolet and visible upconversion luminescence in Nd ³⁺ -doped oxyfluoride glasses and glass ceramics obtained by different preparation methods. <i>Journal of Applied Physics</i> , 2006, 99, 113510.	1.1	24
69	Pressure- and temperature-induced structural phase transitions in fluoride matrices monitoring by Eu ³⁺ luminescence. <i>High Pressure Research</i> , 2006, 26, 411-414.	0.4	2
70	High-pressure luminescence in Nd ³⁺ -doped MgO:LiNbO ₃ . <i>High Pressure Research</i> , 2006, 26, 341-344.	0.4	11
71	Analysis of the Eu ³⁺ emission in a SrWO ₄ laser matrix under pressure. <i>High Pressure Research</i> , 2006, 26, 355-359.	0.4	13
72	Infrared-to-visible photon avalanche upconversion dynamics in Ho ³⁺ -doped fluorozirconate glasses at room temperature. <i>Optical Materials</i> , 2005, 27, 1754-1761.	1.7	40

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73	Rare earths in nanocrystalline glass-ceramics. <i>Optical Materials</i> , 2005, 27, 1762-1770.	1.7	62
74	Room temperature photon avalanche up-conversion in Ho ³⁺ doped fluoroindate glasses under excitation at 747 nm. <i>Optical Materials</i> , 2004, 25, 209-213.	1.7	18
75	Optical properties and site distribution of Cr ³⁺ ions in alkali-disilicate glasses. <i>Journal of Luminescence</i> , 2004, 106, 77-90.	1.5	8
76	Optical properties of single doped Cr ³⁺ and co-doped Cr ³⁺ -Nd ³⁺ aluminum tantalum tellurite glasses. <i>Journal of Alloys and Compounds</i> , 2004, 380, 163-166.	2.8	17
77	Optical intensities of Pr ³⁺ ions in transparent oxyfluoride glass and glass-ceramic. Applications of the standard and modified Judd-Ofelt theories. <i>Journal of Alloys and Compounds</i> , 2004, 380, 167-172.	2.8	48
78	Synthesis, electrical properties, and optical characterization of Eu ³⁺ -doped La ₂ Mo ₂ O ₉ nanocrystalline phosphors. <i>Journal of Non-Crystalline Solids</i> , 2004, 345-346, 377-381.	1.5	47
79	Optical properties of Nd ³⁺ ions in oxyfluoride glasses and glass ceramics comparing different preparation methods. <i>Journal of Applied Physics</i> , 2004, 95, 5271-5279.	1.1	83
80	Optical spectroscopy analysis of the Eu ³⁺ ions local structure in calcium diborate glasses. <i>Journal of Non-Crystalline Solids</i> , 2003, 319, 200-216.	1.5	91
81	Site selective study of Eu ³⁺ -doped transparent oxyfluoride glass ceramics. <i>Journal of Applied Physics</i> , 2003, 94, 2295-2301.	1.1	55
82	Optical Properties of Rare Earth Doped Transparent Oxyfluoride Glass Ceramics. <i>Radiation Effects and Defects in Solids</i> , 2003, 158, 457-462.	0.4	7
83	Room temperature photon avalanche upconversion in Ho ³⁺ -doped fluoroindate glasses under excitation at 749 nm. , 2003, 4829, 141.		0
84	Pressure-induced dark-to-bright transition in Lu ₂ O ₃ :Ce ³⁺ . <i>Physical Review B</i> , 2002, 65, .	1.1	21
85	Spectroscopic Monitoring of the Eu ³⁺ Ion Local Structure in the Pressure Induced Amorphization Of EuZrF ₇ Polycrystal. <i>High Pressure Research</i> , 2002, 22, 111-114.	0.4	6
86	Optical properties of Er ³⁺ ions in transparent glass ceramics. <i>Journal of Alloys and Compounds</i> , 2001, 323-324, 753-758.	2.8	81
87	Cr ³⁺ -Tm ³⁺ energy transfer in alkali silicate glasses. <i>Journal of Alloys and Compounds</i> , 2001, 323-324, 759-762.	2.8	6
88	Role of the Eu ³⁺ ions in the formation of transparent oxyfluoride glass ceramics. <i>Journal of Applied Physics</i> , 2001, 89, 5307-5310.	1.1	55
89	High-pressure luminescence studies in Ce ³⁺ :Lu ₂ SiO ₅ . <i>Physical Review B</i> , 2001, 64, .	1.1	26
90	Spectroscopy of rare earth ions in fluoride glasses for laser applications. <i>Optical Materials</i> , 1999, 13, 1-7.	1.7	35

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91	Upconversion dynamics in Er ³⁺ -doped fluoroindate glasses. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1999, 55, 935-940.	2.0	23
92	Infrared, blue and ultraviolet upconversion emissions in Yb ³⁺ -Tm ³⁺ -doped fluoroindate glasses. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1999, 55, 941-945.	2.0	36
93	Fano antiresonances of Cr ³⁺ in alkaline disilicate glasses. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1999, 55, 1319-1322.	2.0	15
94	Transfer and back transfer processes in Yb ³⁺ -Er ³⁺ codoped fluoroindate glasses. Journal of Applied Physics, 1999, 86, 935-939.	1.1	20
95	Energy transfer with migration. Generalization of the Yokota-Tanimoto model for any kind of multipole interaction. Journal of Chemical Physics, 1999, 111, 1191-1194.	1.2	87
96	Energy transfer between Eu ³⁺ ions in calcium diborate glasses. Journal of Physics Condensed Matter, 1999, 11, 8739-8747.	0.7	19
97	Upconversion dynamics in Yb ³⁺ -Ho ³⁺ doped fluoroindate glasses. Journal of Alloys and Compounds, 1998, 275-277, 345-348.	2.8	50
98	Time-resolved fluorescence line narrowing in Yb ³⁺ -doped fluoroindate glasses. Physical Review B, 1998, 57, 3396-3401.	1.1	15
99	Kinetics of transfer and backtransfer in Yb ³⁺ -Er ³⁺ codoped fluoroindate glasses. Journal of Luminescence, 1997, 72-74, 954-955.	1.5	7
100	Site distribution in Cr ³⁺ and Cr ³⁺ -Tm ³⁺ -doped alkaline silicate glasses. Journal of Luminescence, 1997, 72-74, 446-448.	1.5	9
101	Site selective study in Eu ³⁺ -doped fluorozirconate glasses and glass-ceramics. Journal of Luminescence, 1997, 72-74, 437-438.	1.5	33
102	Optical properties of Eu ³⁺ and Ho ³⁺ in fluoride glasses. Journal of Applied Spectroscopy, 1995, 62, 766-770.	0.3	4
103	Excited-state dynamics in Yb ³⁺ -Ho ³⁺ -doped fluoroindate glasses. Journal of Applied Spectroscopy, 1995, 62, 865-871.	0.3	12
104	Optical spectroscopy of Cr ³⁺ and Cr ³⁺ -Tm ³⁺ in alkaline silicate glasses. Journal of Applied Spectroscopy, 1995, 62, 895-899.	0.3	0
105	Mn ²⁺ luminescence in Mg-Ai spinels. Radiation Effects and Defects in Solids, 1995, 136, 29-32.	0.4	15
106	Site selective spectroscopy of Eu ³⁺ and Eu ³⁺ -Ho ³⁺ -doped glasses. Radiation Effects and Defects in Solids, 1995, 135, 105-108.	0.4	7