Lucas Carvalho Veloso Rodrigues

List of Publications by Year
in descending order

44 papers	1,138 citations	393982 19 h-index	395343 33 g-index
45 all docs	45 docs citations	45 times ranked	1101 citing authors

#	Article	IF	Citations
1	Persistent luminescence mechanisms: human imagination at work. Optical Materials Express, 2012, 2, 371.	1.6	204
2	Discovery of the Persistent Luminescence Mechanism of CdSiO₃:Tb³⁺. Journal of Physical Chemistry C, 2012, 116, 11232-11240.	1.5	118
3	Rapid and Energy-Saving Microwave-Assisted Solid-State Synthesis of Pr³⁺-, Eu³⁺-, or Tb³⁺-Doped Lu₂O₃ Persistent Luminescence Materials. ACS Applied Materials & Interfaces, 2016, 8, 19593-19604.	4.0	75
4	Defect to R3+ energy transfer: colour tuning of persistent luminescence in CdSiO3. Journal of Materials Chemistry C, 2014, 2, 1612.	2.7	69
5	Influence of titanium and lutetium on the persistent luminescence of ZrO_2. Optical Materials Express, 2012, 2, 331.	1.6	54
6	Persistent luminescence behavior of materials doped with Eu^2+ and Tb^3+. Optical Materials Express, 2012, 2, 382.	1.6	50
7	Optical energy storage properties of Sr2MgSi2O7:Eu2+,R3+ persistent luminescence materials. Journal of Thermal Analysis and Calorimetry, 2011, 105, 657-662.	2.0	44
8	DFT and synchrotron radiation study of Eu^2+ doped BaAl_2O_4. Optical Materials Express, 2012, 2, 420.	1.6	41
9	Persistent luminescence warm-light LEDs based on Ti-doped RE₂O₂S materials prepared by rapid and energy-saving microwave-assisted synthesis. Journal of Materials Chemistry C, 2018, 6, 8897-8905.	2.7	39
10	Co-Dopant Influence on the Persistent Luminescence of BaAl2O4:Eu2+,R3+. Physica B: Condensed Matter, 2014, 439, 67-71.	1.3	33
11	Opportunities for Persistent Luminescent Nanoparticles in Luminescence Imaging of Biological Systems and Photodynamic Therapy. Nanomaterials, 2020, 10, 2015.	1.9	32
12	Structureâ€“property relationship of luminescent zirconia nanomaterials obtained by solâ€“gel method. Journal of Materials Science, 2015, 50, 873-881.	1.7	28
13	Wavelength-sensitive energy storage in Sr3MgSi2O8:Eu2+,Dy3+. Journal of Thermal Analysis and Calorimetry, 2015, 121, 29-35.	2.0	24
14	X-ray scintillator Gd2O2S:Tb3+ materials obtained by a rapid and cost-effective microwave-assisted solid-state synthesis. Journal of Alloys and Compounds, 2019, 777, 638-645.	2.8	23
15	Persistent luminescence fading in Sr_2MgSi_2O_7:Eu^2+,R^3+ materials: a thermoluminescence study. Optical Materials Express, 2012, 2, 287.	1.6	22
16	White up-conversion luminescence of NaYF4:Yb3+,Pr3+,Er3+. Optical Materials, 2014, 36, 1627-1630.	1.7	22
17	Effect of lithium excess on the LiAl_5O_8:Eu luminescent properties under VUV excitation. Optical Materials Express, 2016, 6, 2871.	1.6	22
18	Luminescence investigation of R 3+ -doped alkaline earth tungstates prepared by a soft chemistry method. Journal of Luminescence, 2016, 170, 736-742.	1.5	21

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19	Persistent luminescence of inorganic nanophosphors prepared by wet-chemical synthesis. Journal of Alloys and Compounds, 2018, 732, 705-715.	2.8	21
20	Thermal behaviour of the NaYF4:Yb3+,R3+ materials. Journal of Thermal Analysis and Calorimetry, 2015, 121, 37-43.	2.0	20
21	Abnormal co-doping effect on the red persistent luminescence SrS:Eu²⁺,RE³⁺ materials. Dalton Transactions, 2020, 49, 16386-16393.	1.6	19
22	Understanding Persistent Luminescence: Rare-Earth- and Eu²⁺-doped Sr₂MgSi₂O₇. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2014, 69, 171-182.	0.3	18
23	On the mechanism of persistent up-conversion luminescence in the ZrO2:Yb3+,Er3+ nanomaterials. Optical Materials, 2014, 36, 1698-1704.	1.7	18
24	Enhancement of the up-conversion luminescence from NaYF4:Yb3+,Tb3+. Physica B: Condensed Matter, 2014, 439, 20-23.	1.3	14
25	Persistent luminescence excitation spectroscopy of BaAl2O4:Eu2+,Dy3+. Physica B: Condensed Matter, 2020, 593, 411947.	1.3	12
26	Detection of Xâ€Ray Doses with Colorâ€Changing Hackmanites: Mechanism and Application. Advanced Optical Materials, 2021, 9, 2100762.	3.6	12
27	Valence control of Pr in ZrO 2 nanocrystals by aliovalent Gd 3+ co-doping. Journal of Luminescence, 2016, 170, 627-632.	1.5	9
28	A new path to design near-infrared persistent luminescence materials using Yb3+-doped rare earth oxysulfides. Scripta Materialia, 2019, 164, 57-61.	2.6	9
29	Defects and Charge Compensation in CdSiO3: A DFT and Synchrotron Study. Physics Procedia, 2013, 44, 1-9.	1.2	8
30	X-ray excited optical luminescence and morphological studies of Eu-doped LiAl5O8. Physica B: Condensed Matter, 2019, 559, 62-65.	1.3	8
31	Bringing Earth-Abundant Plasmonic Catalysis to Light: Gram-Scale Mechanochemical Synthesis and Tuning of Activity by Dual Excitation of Antenna and Reactor Sites. ACS Sustainable Chemistry and Engineering, 2021, 9, 9750-9760.	3.2	7
32	Toward an energy-efficient synthesis method to improve persistent luminescence of Sr2MgSi2O7:Eu2+,Dy3+ materials. Materialia, 2021, 20, 101226.	1.3	6
33	Persistent luminescence of cadmium silicates. Physica Scripta, 2014, 89, 044014.	1.2	5
34	Magneto-optical studies of valence instability in europium and terbium phosphors. Journal of Luminescence, 2016, 170, 701-706.	1.5	5
35	Flexible translucent persistent luminescent films based on Sr₂MgSi₂O₇:Eu²⁺,Dy³⁺ cellulose ether composites. Dalton Transactions, 2022, 51, 9138-9143.	1.6	5
36	Persistent Luminescent Non-Doped Layered Nanosilicate. Materials Today: Proceedings, 2016, 3, 2822-2830.	0.9	4

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37	Redâ€•and greenâ€•emitting nanoâ€•clay materials doped with Eu³⁺ and/or Tb³⁺. Luminescence, 2019, 34, 23-38.	1.5	4
38	Yb3+/Er3+ co-doped Dionâ€“Jacobson niobium layered perovskites as NIR-to-green upconversion materials. New Journal of Chemistry, 2020, 44, 10165-10171.	1.4	4
39	Green Synthesis of Upconverting NaYF4 and NaGdF4 Materials and Energy Levels Determination. Journal of the Brazilian Chemical Society, 0, , .	0.6	4
40	Synthesis and Characterization of CaMgSi₂O₆ Activated by Eu²⁺. Materials Science Forum, 2016, 881, 30-34.	0.3	2
41	Detection of Xâ€Ray Doses with Colorâ€Changing Hackmanites: Mechanism and Application (Advanced) Tj ETQq1 1 0.784314 rgBT /	3.6	2
42	Structural and optical properties of europiumâ€•and titaniumâ€doped Y₂O₃ nanoparticles. Luminescence, 2020, 35, 456-465.	1.5	1
43	Lanthanide Materials for Sensing. , 2021, , .		0
44	Deep-red activated persistent luminescence nanoparticles via upconversion. , 2021, , .		0