

Diana Serrano

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

481
citations

687363

13
h-index

677142

22
g-index

28
all docs

28
docs citations

28
times ranked

498
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling the interfacial reactions and environment of rare-earth ions in thin oxide films towards wafer-scalable quantum technologies. <i>Materials Advances</i> , 2022, 3, 300-311.	5.4	4
2	Ultra-narrow optical linewidths in rare-earth molecular crystals. <i>Nature</i> , 2022, 603, 241-246.	27.8	54
3	High-connectivity quantum processor nodes using single-ion qubits in rare-earth-ion-doped crystals. <i>Physical Review A</i> , 2022, 105, .	2.5	9
4	Optical spin-state polarization in a binuclear europium complex towards molecule-based coherent light-spin interfaces. <i>Nature Communications</i> , 2021, 12, 2152.	12.8	21
5	Dynamic control of Purcell enhanced emission of erbium ions in nanoparticles. <i>Nature Communications</i> , 2021, 12, 3570.	12.8	36
6	Defect Engineering for Quantum Grade Rare-Earth Nanocrystals. <i>ACS Nano</i> , 2020, 14, 9953-9962.	14.6	13
7	A Frequency-Multiplexed Coherent Electro-optic Memory in Rare Earth Doped Nanoparticles. <i>Nano Letters</i> , 2020, 20, 7087-7093.	9.1	11
8	Chemically vapor deposited Eu ³⁺ :Y ₂ O ₃ thin films as a material platform for quantum technologies. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	11
9	Harnessing Atomic Layer Deposition and Diffusion to Spatially Localize Rare-Earth Ion Emitters. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19725-19735.	3.1	4
10	Structure Analysis of Amyloid Aggregates at Lipid Bilayers by Supercritical Angle Raman Microscopy. <i>Analytical Chemistry</i> , 2020, 92, 4963-4970.	6.5	2
11	Improving the Luminescent Properties of Atomic Layer Deposition Eu:Y ₂ O ₃ Thin Films through Optimized Thermal Annealing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900909.	1.8	6
12	Coherent optical and spin spectroscopy of nanoscale Y_2O_3 thin films. <i>Physical Review B</i> , 2019, 100, .	3.2	16
13	Amyloid- β Peptide-Lipid Bilayer Interaction Investigated by Supercritical Angle Fluorescence. <i>ACS Chemical Neuroscience</i> , 2019, 10, 4776-4786.	3.5	7
14	Ultrathin Eu- and Er-Doped Y ₂ O ₃ Films with Optimized Optical Properties for Quantum Technologies. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13354-13364.	3.1	32
15	Controlled size reduction of rare earth doped nanoparticles for optical quantum technologies. <i>RSC Advances</i> , 2018, 8, 37098-37104.	3.6	16
16	All-optical control of long-lived nuclear spins in rare-earth doped nanoparticles. <i>Nature Communications</i> , 2018, 9, 2127.	12.8	45
17	Supercritical angle Raman microscopy: a surface-sensitive nanoscale technique without field enhancement. <i>Light: Science and Applications</i> , 2017, 6, e17066-e17066.	16.6	6
18	High-resolution transient and permanent spectral hole burning in Ce ³⁺ :Y ₂ SiO ₅ at liquid helium temperatures. <i>Physical Review B</i> , 2016, 93, .	3.2	1

#	ARTICLE	IF	CITATIONS
19	Satellite line mapping in Eu^{3+} and Pr^{3+} codoped Y_2SiO_5 . Journal of Luminescence, 2016, 170, 102-107.	3.1	6
20	High-fidelity readout scheme for rare-earth solid-state quantum computing. Physical Review A, 2015, 92, .	2.5	23
21	Impact of the ion energy transfer on quantum computing schemes in rare-earth doped solids. Journal of Luminescence, 2014, 151, 93-99.	3.1	7
22	Measurement of linewidths and permanent electric dipole moment change of the Ce^{3+} transition	3.2	24
23	Measurement of linewidths and permanent electric dipole moment change of the Ce^{3+} transition	3.2	21
24	Pr^{3+} cluster management in CaF_2 by codoping with Lu^{3+} or Yb^{3+} for visible lasers and quantum down-converters. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1854.	2.1	26
25	Visible to infrared down conversion in rare-earth doped fluorides for luminescent solar converters. , 2011, , .		1
26	Highly efficient energy transfer in Pr^{3+} , Yb^{3+} codoped CaF_2 for luminescent solar converters. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1760.	2.1	29
27	Ytterbium sensitization in KY_3F_{10} : Pr^{3+} , Yb^{3+} for silicon solar cells efficiency enhancement. Optical Materials, 2011, 33, 1028-1031.	3.6	50