

Sacha Welinski

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

378
citations

759233

12
h-index

940533

16
g-index

19
all docs

19
docs citations

19
times ranked

392
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous coherence enhancement of optical and microwave transitions in solid-state electronic spins. <i>Nature Materials</i> , 2018, 17, 671-675.	27.5	80
2	Electron Spin Coherence in Optically Excited States of Rare-Earth Ions for Microwave to Optical Quantum Transducers. <i>Physical Review Letters</i> , 2019, 122, 247401.	7.8	36
3	$Yb^{3+}SiO_5$	3.2	31
4	Narrow Optical Line Widths in Erbium Implanted in TiO_2 . <i>Nano Letters</i> , 2019, 19, 8928-8933.	9.1	30
5	Coherent spin dynamics of ytterbium ions in yttrium orthosilicate. <i>Physical Review B</i> , 2018, 97, .	3.2	28
6	Electron-Phonon Coupling in Luminescent Europium-Doped Hydride Perovskites Studied by Luminescence Spectroscopy, Inelastic Neutron Scattering, and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10501-10509.	3.1	26
7	$Yb^{3+}SiO_5$	3.2	24
8	Erbium-implanted materials for quantum communication applications. <i>Physical Review B</i> , 2022, 105, .	3.2	24
9	Effects of disorder on optical and electron spin linewidths in $Er^{3+}, Sc^{3+}:Y_2SiO_5$. <i>Optical Materials</i> , 2017, 63, 69-75.	3.6	20
10	Dephasing mechanisms of optical transitions in rare-earth-doped transparent ceramics. <i>Physical Review B</i> , 2016, 94, .	3.2	19
11	High-Cooperativity Coupling of a Rare-Earth Spin Ensemble to a Superconducting Resonator Using Yttrium Orthosilicate as a Substrate. <i>Physical Review Applied</i> , 2019, 11, .	3.8	19
12	Lanthanide luminescence as a local probe in mixed anionic hydrides – a case study on Eu^{2+} -doped $RbMgH_xF_{3-x}$ and $KMgH_xF_{3-x}$. <i>Journal of Materials Chemistry C</i> , 2018, 6, 13006-13012.	5.5	15
13	Coherence Time Extension by Large-Scale Optical Spin Polarization in a Rare-Earth Doped Crystal. <i>Physical Review X</i> , 2020, 10, .	8.9	11
14	Hybrid III-V diamond photonic platform for quantum nodes based on neutral silicon vacancy centers in diamond. <i>Optics Express</i> , 2021, 29, 9174.	3.4	8
15	$Yb^{3+}LiNbO_3$	3.2	5
16	Towards broadband optical spin-wave quantum memory. , 2019, , .		1
17	Optical and spin inhomogeneous linewidths in $^{171}Yb^{3+}$		1
18	Optical Coherence Increase by Diffusion Enhanced Optical Pumping in a Rare-Earth Doped Crystal. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
19	New Host Materials for Rare Earth Ions. , 2020, , .		0