

Sacha Welinski

List of Publications by Year in descending order

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19
papers

378
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759233

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19
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392
citing authors

#	ARTICLE	IF	CITATIONS
1	and spin inhomogeneous linewidths in $^{171}\text{Yb}^{3+}$ Er ³⁺ :Y ₂ SiO ₅ crystal. Photon echo, spectral hole burning, and optically detected magnetic resonance in $^{171}\text{Yb}^{3+}$ Er ³⁺ :Y ₂ SiO ₅ crystal. Physical Review B, 2018, 98, 044407.	1.8	1
2	Er ³⁺ :Y ₂ SiO ₅ crystal. Physical Review B, 2018, 98, 044407.	3.2	5
3	Erbium-implanted materials for quantum communication applications. Physical Review B, 2022, 105, .	3.2	24
4	Optical Coherence Increase by Diffusion Enhanced Optical Pumping in a Rare-Earth Doped Crystal. , 2021, , .		0
5	Hybrid III-V diamond photonic platform for quantum nodes based on neutral silicon vacancy centers in diamond. Optics Express, 2021, 29, 9174.	3.4	8
6	Coherence Time Extension by Large-Scale Optical Spin Polarization in a Rare-Earth Doped Crystal. Physical Review X, 2020, 10, .	8.9	11
7	New Host Materials for Rare Earth Ions. , 2020, , .		0
8	Electron Spin Coherence in Optically Excited States of Rare-Earth Ions for Microwave to Optical Quantum Transducers. Physical Review Letters, 2019, 122, 247401.	7.8	36
9	High-Cooperativity Coupling of a Rare-Earth Spin Ensemble to a Superconducting Resonator Using Yttrium Orthosilicate as a Substrate. Physical Review Applied, 2019, 11, .	3.8	19
10	Narrow Optical Line Widths in Erbium Implanted in TiO ₂ . Nano Letters, 2019, 19, 8928-8933.	9.1	30
11	Towards broadband optical spin-wave quantum memory. , 2019, , .		1
12	Electron-Phonon Coupling in Luminescent Europium-Doped Hydride Perovskites Studied by Luminescence Spectroscopy, Inelastic Neutron Scattering, and First-Principles Calculations. Journal of Physical Chemistry C, 2018, 122, 10501-10509.	3.1	26
13	Coherent spin dynamics of ytterbium ions in yttrium orthosilicate. Physical Review B, 2018, 97, .	3.2	28
14	Lanthanide luminescence as a local probe in mixed anionic hydrides – a case study on Eu ²⁺ -doped RbMgH _x F _{3-x} and KMgH _x F _{3-x} . Journal of Materials Chemistry C, 2018, 6, 13006-13012.	5.5	15
15	High-resolution optical spectroscopy and magnetic properties of $^{171}\text{Yb}^{3+}$ Er ³⁺ :Y ₂ SiO ₅ crystal. Physical Review B, 2018, 98, .	3.2	24
16	Simultaneous coherence enhancement of optical and microwave transitions in solid-state electronic spins. Nature Materials, 2018, 17, 671-675.	27.5	80
17	Effects of disorder on optical and electron spin linewidths in Er ³⁺ , Sc ³⁺ :Y ₂ SiO ₅ . Optical Materials, 2017, 63, 69-75.	3.6	20
18	High-resolution optical spectroscopy and magnetic properties of $^{171}\text{Yb}^{3+}$ Er ³⁺ :Y ₂ SiO ₅ crystal. Physical	3.2	31

#	ARTICLE	IF	CITATIONS
19	Dephasing mechanisms of optical transitions in rare-earth-doped transparent ceramics. Physical Review B, 2016, 94, .	3.2	19