

Evgeny A Chekhovich

List of Publications by Year in descending order

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39

papers

1,329

citations

394421

19

h-index

361022

35

g-index

39

all docs

39

docs citations

39

times ranked

1991

citing authors

#	ARTICLE	IF	CITATIONS
19	Optically tunable nuclear magnetic resonance in a single quantum dot. <i>Physical Review B</i> , 2010, 82, .	3.2	21
20	Nuclear magnetic resonance inverse spectra of InGaAs quantum dots: Atomistic level structural information. <i>Physical Review B</i> , 2014, 90, .	3.2	21
21	Fundamental limits of electron and nuclear spin qubit lifetimes in an isolated self-assembled quantum dot. <i>Npj Quantum Information</i> , 2021, 7, .	6.7	17
22	Dynamic nuclear polarization in InGaAs/GaAs and GaAs/AlGaAs quantum dots under nonresonant ultralow-power optical excitation. <i>Physical Review B</i> , 2013, 88, .	3.2	16
23	Few-second-long correlation times in a quantum dot nuclear spin bath probed by frequency-comb nuclear magnetic resonance spectroscopy. <i>Nature Physics</i> , 2016, 12, 688-693.	16.7	16
24	Pulse control protocols for preserving coherence in dipolar-coupled nuclear spin baths. <i>Nature Communications</i> , 2019, 10, 3157.	12.8	15
25	Charge control in InP/(Ga,In)P single quantum dots embedded in Schottky diodes. <i>Physical Review B</i> , 2011, 84, .	3.2	13
26	Light-polarization-independent nuclear spin alignment in a quantum dot. <i>Physical Review B</i> , 2011, 83, .	3.2	11
27	Cross calibration of deformation potentials and gradient-elastic tensors of GaAs using photoluminescence and nuclear magnetic resonance spectroscopy in GaAs/AlGaAs quantum dot structures. <i>Physical Review B</i> , 2018, 97, .	3.2	11
28	Harnessing many-body spin environment for long coherence storage and high-fidelity single-shot qubit readout. <i>Nature Communications</i> , 2022, 13, .	12.8	7
29	Direct Measurement of Hyperfine Shifts and Radio Frequency Manipulation of Nuclear Spins in Individual CdTe/ZnTe Quantum Dots. <i>Physical Review Letters</i> , 2019, 122, 096801.	7.8	6
30	Negatively charged excitons in semimagnetic CdSe/ZnSe/ZnMnSe quantum dots. <i>Journal of Experimental and Theoretical Physics</i> , 2007, 105, 379-387.	0.9	5
31	Complete characterization of GaAs gradient-elastic tensors and reconstruction of internal strain in GaAs/AlGaAs quantum dots using nuclear magnetic resonance. <i>Physical Review B</i> , 2019, 99, .	3.2	5
32	Growth of low density InP/GaInP quantum dots. <i>Journal of Physics: Conference Series</i> , 2010, 245, 012061.	0.4	3
33	Optimization of low density InP/GaInP quantum dots for single-dot studies. <i>Journal of Physics: Conference Series</i> , 2010, 245, 012093.	0.4	2
34	Fine structure of emission lines from charged CdSe/ZnSe/ZnMnSe quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 1535-1538.	1.5	2
35	Metalorganic vapor phase epitaxy growth, transmission electron microscopy, and magneto-optical spectroscopy of individual InAs _x P _{1-x} /Ga _{0.5} In _{0.5} P quantum dots. <i>Physical Review Materials</i> , 2017, 1, .	2.4	1
36	Non-invasive structural analysis of InP quantum dots and other nanostructures using nuclear magnetic resonance. , 2016, , .	0	0

#	ARTICLE	IF	CITATIONS
37	Decoherence and fluctuation dynamics of the quantum dot nuclear spin bath probed by nuclear magnetic resonance. <i>Journal of Physics: Conference Series</i> , 2017, 864, 012080.	0.4	0
38	Keyhole Resonators for Subwavelength Focusing of Microwave Magnetic Fields in Optically Detected Electron Spin Resonance. <i>Physical Review Applied</i> , 2021, 15, .	3.8	0
39	Fine structure of electron-hole complexes in single semimagnetic quantum dots. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0