

# Alex Greilich

## List of Publications by Year in descending order

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39  
papers

1,730  
citations

393982

19  
h-index

315357

38  
g-index

39  
all docs

39  
docs citations

39  
times ranked

928  
citing authors

#	ARTICLE	IF	CITATIONS
1	Invariants in the paramagnetic resonance spectra of impurity-doped crystals. Physical Review B, 2022, 105, .	1.1	5
2	Unveiling the electron-nuclear spin dynamics in an $n$ -doped InGaAs epilayer by spin noise spectroscopy. Physical Review B, 2022, 106, .	1.1	3
3	Suppression of nuclear spin fluctuations in an InGaAs quantum dot ensemble by GHz-pulsed optical excitation. Npj Quantum Information, 2021, 7, .	2.8	12
4	Resonant spin amplification in Faraday geometry. Physical Review B, 2021, 103, .	1.1	1
5	Shielding of external magnetic field by dynamic nuclear polarization in (In,Ga)As quantum dots. Physical Review B, 2021, 104, .	1.1	2
6	Extended spin coherence of the zinc-vacancy centers in ZnSe with fast optical access. Communications Materials, 2021, 2, .	2.9	5
7	Nonlinear Faraday effect and spin noise in rare-earth activated crystals. Physical Review B, 2021, 104, .	1.1	0
8	Detection and amplification of spin noise using scattered laser light in a quantum-dot microcavity. Physical Review B, 2020, 101, .	1.1	5
9	Spin polarization recovery and Hanle effect for charge carriers interacting with nuclear spins in semiconductors. Physical Review B, 2020, 102, .	1.1	17
10	Giant spin-noise gain enables magnetic resonance spectroscopy of impurity crystals. Physical Review Research, 2020, 2, .	1.3	8
11	Theoretical Modeling of the Nuclear-Field Induced Tuning of the Electron Spin Precession for Localized Spins. Physica Status Solidi (B): Basic Research, 2019, 256, 1800534.	0.7	5
12	Spin dephasing of electrons and holes in isotopically purified ZnSe/(Zn,Mg)Se quantum wells. Physical Review B, 2019, 100, .	1.1	4
13	Increased sensitivity of spin noise spectroscopy using homodyne detection in $n$ -doped GaAs. Physical Review B, 2018, 97, .	1.1	14
14	Magnetic field dependence of the electron spin revival amplitude in periodically pulsed quantum dots. Physical Review B, 2018, 98, .	1.1	17
15	Spin inertia of resident and photoexcited carriers in singly charged quantum dots. Physical Review B, 2018, 98, .	1.1	23
16	Theory of spin inertia in singly charged quantum dots. Physical Review B, 2018, 98, .	1.1	22
17	Discretization of the total magnetic field by the nuclear spin bath in fluorine-doped ZnSe. Nature Communications, 2018, 9, 1941.	5.8	18
18	Decay and revival of electron spin polarization in an ensemble of (In,Ga)As quantum dots. Physical Review B, 2018, 98, .	1.1	9

#	ARTICLE	IF	CITATIONS
19	Nonequilibrium spin noise in a quantum dot ensemble. Physical Review B, 2017, 95, .	1.1	16
20	Extended pump-probe Faraday rotation spectroscopy of the submicrosecond electron spin dynamics in GaAs. Physical Review B, 2016, 94, .	1.1	29
21	Spin noise of electrons and holes in (In,Ga)As quantum dots: Experiment and theory. Physical Review B, 2016, 93, .	1.1	33
22	Longitudinal and transverse spin dynamics of donor-bound electrons in fluorine-doped ZnSe: Spin inertia versus Hanle effect. Physical Review B, 2015, 91, .	1.1	36
23	Inhomogeneous nuclear spin polarization induced by helicity-modulated optical excitation of fluorine-bound electron spins in ZnSe. Physical Review B, 2015, 92, .	1.1	10
24	Spin mode locking in quantum dots revisited. Physica Status Solidi (B): Basic Research, 2014, 251, 1892-1911.	0.7	9
25	Two-colour spin noise spectroscopy and fluctuation correlations reveal homogeneous linewidths within quantum-dot ensembles. Nature Communications, 2014, 5, 4949.	5.8	54
26	Optical Spectroscopy of Spin Noise. Physical Review Letters, 2013, 110, 176601.	2.9	76
27	Resources of polarimetric sensitivity in spin noise spectroscopy. Physical Review B, 2013, 88, .	1.1	23
28	Spin dephasing of fluorine-bound electrons in ZnSe. Physical Review B, 2012, 85, .	1.1	38
29	Hole spin precession in a (In,Ga)As quantum dot ensemble: From resonant spin amplification to spin mode locking. Physical Review B, 2012, 86, .	1.1	25
30	Spin Noise of Electrons and Holes in Self-Assembled Quantum Dots. Physical Review Letters, 2010, 104, 036601.	2.9	136
31	Collective single-mode precession of electron spins in an ensemble of singly charged (In,Ga)As/GaAs quantum dots. Physical Review B, 2009, 79, .	1.1	32
32	Long-Term Hole Spin Memory in the Resonantly Amplified Spin Coherence of InGaAs Quantum Well Electrons. Physical Review Letters, 2009, 102, 167402.	2.9	37
33	A way to a single frequency precession of an inhomogeneous ensemble of electron spins in InGaAs quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 428-431.	0.8	2
34	Effect of thermal annealing on the hyperfine interaction in InAs/GaAs quantum dots. Physical Review B, 2008, 78, .	1.1	66
35	Nuclei-Induced Frequency Focusing of Electron Spin Coherence. Science, 2007, 317, 1896-1899.	6.0	218
36	Exciton fine structure in InGaAs/GaAs quantum dots revisited by pump-probe Faraday rotation. Physical Review B, 2007, 75, .	1.1	65

#	ARTICLE	IF	CITATIONS
37	Mode Locking of Electron Spin Coherences in Singly Charged Quantum Dots. Science, 2006, 313, 341-345.	6.0	409
38	Tailored quantum dots for entangled photon pair creation. Physical Review B, 2006, 73, .	1.1	53
39	Optical Control of Spin Coherence in Singly Charged(In,Ga)As/GaAsQuantum Dots. Physical Review Letters, 2006, 96, 227401.	2.9	193