

# 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	Mode Locking of Electron Spin Coherences in Singly Charged Quantum Dots. <i>Science</i> , 2006, 313, 341-345.	6.0	409
2	Nuclei-Induced Frequency Focusing of Electron Spin Coherence. <i>Science</i> , 2007, 317, 1896-1899.	6.0	218
3	Optical Control of Spin Coherence in Singly Charged(In,Ga)As/GaAsQuantum Dots. <i>Physical Review Letters</i> , 2006, 96, 227401.	2.9	193
4	Spin Noise of Electrons and Holes in Self-Assembled Quantum Dots. <i>Physical Review Letters</i> , 2010, 104, 036601.	2.9	136
5	Optical Spectroscopy of Spin Noise. <i>Physical Review Letters</i> , 2013, 110, 176601.	2.9	76
6	Effect of thermal annealing on the hyperfine interaction in InAs/GaAs quantum dots. <i>Physical Review B</i> , 2008, 78, .	1.1	66
7	Exciton fine structure inInGaAs <sup>+</sup> GaAsquantum dots revisited by pump-probe Faraday rotation. <i>Physical Review B</i> , 2007, 75, .	1.1	65
8	Two-colour spin noise spectroscopy and fluctuation correlations reveal homogeneous linewidths within quantum-dot ensembles. <i>Nature Communications</i> , 2014, 5, 4949.	5.8	54
9	Tailored quantum dots for entangled photon pair creation. <i>Physical Review B</i> , 2006, 73, .	1.1	53
10	Spin dephasing of fluorine-bound electrons in ZnSe. <i>Physical Review B</i> , 2012, 85, .	1.1	38
11	Long-Term Hole Spin Memory in the Resonantly Amplified Spin Coherence of $\langle \text{InGaAs} \rangle \langle \text{GaAs} \rangle \langle \text{Quantum Well Electrons} \rangle$ . <i>Physical Review Letters</i> , 2009, 102, 167402.	2.9	37
12	Longitudinal and transverse spin dynamics of donor-bound electrons in fluorine-doped ZnSe: Spin inertia versus Hanle effect. <i>Physical Review B</i> , 2015, 91, .	1.1	36
13	Spin noise of electrons and holes in (In,Ga)As quantum dots: Experiment and theory. <i>Physical Review B</i> , 2016, 93, .	1.1	33
14	Collective single-mode precession of electron spins in an ensemble of singly charged (In,Ga)As/GaAs quantum dots. <i>Physical Review B</i> , 2009, 79, .	1.1	32
15	Extended pump-probe Faraday rotation spectroscopy of the submicrosecond electron spin dynamics in $n$ -type GaAs. <i>Physical Review B</i> , 2016, 94, .	1.1	29
16	Hole spin precession in a (In,Ga)As quantum dot ensemble: From resonant spin amplification to spin mode locking. <i>Physical Review B</i> , 2012, 86, .	1.1	25
17	Resources of polarimetric sensitivity in spin noise spectroscopy. <i>Physical Review B</i> , 2013, 88, .	1.1	23
18	Spin inertia of resident and photoexcited carriers in singly charged quantum dots. <i>Physical Review B</i> , 2018, 98, .	1.1	23

#	ARTICLE	IF	CITATIONS
19	Theory of spin inertia in singly charged quantum dots. <i>Physical Review B</i> , 2018, 98, .	1.1	22
20	Discretization of the total magnetic field by the nuclear spin bath in fluorine-doped ZnSe. <i>Nature Communications</i> , 2018, 9, 1941.	5.8	18
21	Magnetic field dependence of the electron spin revival amplitude in periodically pulsed quantum dots. <i>Physical Review B</i> , 2018, 98, .	1.1	17
22	Spin polarization recovery and Hanle effect for charge carriers interacting with nuclear spins in semiconductors. <i>Physical Review B</i> , 2020, 102, .	1.1	17
23	Nonequilibrium spin noise in a quantum dot ensemble. <i>Physical Review B</i> , 2017, 95, .	1.1	16
24	Increased sensitivity of spin noise spectroscopy using homodyne detection in $n$ -doped GaAs. <i>Physical Review B</i> , 2018, 97, .	1.1	14
25	Suppression of nuclear spin fluctuations in an InGaAs quantum dot ensemble by GHz-pulsed optical excitation. <i>Npj Quantum Information</i> , 2021, 7, .	2.8	12
26	Inhomogeneous nuclear spin polarization induced by helicity-modulated optical excitation of fluorine-bound electron spins in ZnSe. <i>Physical Review B</i> , 2015, 92, .	1.1	10
27	Spin mode locking in quantum dots revisited. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 1892-1911.	0.7	9
28	Decay and revival of electron spin polarization in an ensemble of (In,Ga)As quantum dots. <i>Physical Review B</i> , 2018, 98, .	1.1	9
29	Giant spin-noise gain enables magnetic resonance spectroscopy of impurity crystals. <i>Physical Review Research</i> , 2020, 2, .	1.3	8
30	Theoretical Modeling of the Nuclear $\mathbf{r}$ -Field Induced Tuning of the Electron Spin Precession for Localized Spins. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800534.	0.7	5
31	Detection and amplification of spin noise using scattered laser light in a quantum-dot microcavity. <i>Physical Review B</i> , 2020, 101, .	1.1	5
32	Extended spin coherence of the zinc-vacancy centers in ZnSe with fast optical access. <i>Communications Materials</i> , 2021, 2, .	2.9	5
33	Invariants in the paramagnetic resonance spectra of impurity-doped crystals. <i>Physical Review B</i> , 2022, 105, .	1.1	5
34	Spin dephasing of electrons and holes in isotopically purified ZnSe/(Zn,Mg)Se quantum wells. <i>Physical Review B</i> , 2019, 100, .	1.1	4
35	Unveiling the electron-nuclear spin dynamics in an $n$ -doped InGaAs epilayer by spin noise spectroscopy. <i>Physical Review B</i> , 2022, 106, .	1.1	3
36	A way to a single frequency precession of an inhomogeneous ensemble of electron spins in InGaAs quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 428-431.	0.8	2

#	ARTICLE	IF	CITATIONS
37	Shielding of external magnetic field by dynamic nuclear polarization in (In,Ga)As quantum dots. Physical Review B, 2021, 104, .	1.1	2
38	Resonant spin amplification in Faraday geometry. Physical Review B, 2021, 103, .	1.1	1
39	Nonlinear Faraday effect and spin noise in rare-earth activated crystals. Physical Review B, 2021, 104, .	1.1	0