

Vf F Sapega

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9069633/publications.pdf>

Version: 2024-02-01

70
papers

1,642
citations

361296
20
h-index

289141
40
g-index

70
all docs

70
docs citations

70
times ranked

1639
citing authors

#	ARTICLE	IF	CITATIONS
1	Colossal Magnetic Moment of Gd in GaN. Physical Review Letters, 2005, 94, 037205.	2.9	338
2	Coherent Magnetization Precession in Ferromagnetic (Ga,Mn)As Induced by Picosecond Acoustic Pulses. Physical Review Letters, 2010, 105, 117204.	2.9	170
3	Addressing the exciton fine structure in colloidal nanocrystals: the case of CdSe nanoplatelets. Nanoscale, 2018, 10, 646-656.	2.8	89
4	Interface roughness and homogeneous linewidths in quantum wells and superlattices studied by resonant acoustic-phonon Raman scattering. Physical Review B, 1994, 50, 1792-1806.	1.1	72
5	Spin-flip Raman scattering in GaAs/AlxGa1-xAs multiple quantum wells. Physical Review B, 1992, 45, 4320-4326.	1.1	71
6	Excitation of spin waves in ferromagnetic (Ga,Mn)As layers by picosecond strain pulses. Physical Review B, 2012, 85, .	1.1	65
7	Polarization of Valence Band Holes in the (Ga,Mn)As Diluted Magnetic Semiconductor. Physical Review Letters, 2005, 94, 137401.	2.9	62
8	Dynamic spin polarization by orientation-dependent separation in a ferromagnetic semiconductor hybrid. Nature Communications, 2012, 3, 959.	5.8	53
9	Resonant Raman scattering due to bound-carrier spin flip in GaAs/AlxGa1-xAs quantum wells. Physical Review B, 1994, 50, 2510-2519.	1.1	51
10	Electron and Hole g-Factors and Spin Dynamics of Negatively Charged Excitons in CdSe/CdS Colloidal Nanoplatelets with Thick Shells. Nano Letters, 2018, 18, 373-380.	4.5	50
11	Long-range d exchange interaction in a ferromagnetic semiconductor hybrid structure. Nature Physics, 2016, 12, 85-91.	6.5	47
12	Raman scattering from folded phonon dispersion gaps. Physical Review Letters, 1993, 71, 3035-3038.	2.9	45
13	Electronic structure of Mn ions in (Ga,Mn)As diluted magnetic semiconductor. Physical Review B, 2002, 66, .	1.1	36
14	Secondary emission and acoustic-phonon scattering induced by strong magnetic fields in multiple quantum wells. Physical Review B, 1992, 46, 16005-16011.	1.1	34
15	Spin-flip Raman scattering of the exciton in indirect band gap (In,Al)As/AlAs quantum dots. Physical Review B, 2014, 90, .	1.1	30
16	Hot-electron photoluminescence study of the (Ga,Mn)As diluted magnetic semiconductor. Physical Review B, 2006, 73, .	1.1	29
17	Spin-flip Raman scattering of the neutral and charged excitons confined in a CdTe/(Cd,Mg)Te quantum well. Physical Review B, 2013, 87, .	1.1	29
18	The Landé factors of electrons and holes in lead halide perovskites: universal dependence on the band gap. Nature Communications, 2022, 13, .	5.8	28

#	ARTICLE	IF	CITATIONS
19	Single and Double Electron Spin-Flip Raman Scattering in CdSe Colloidal Nanoplatelets. Nano Letters, 2020, 20, 517-525.	4.5	21
20	Spin-flip Raman scattering of the resident electron in singly charged (In,Ga)As/GaAs quantum dot ensembles. Physical Review B, 2014, 90, .	1.1	20
21	Magneto-Optics of Excitons Interacting with Magnetic Ions in CdSe/CdMnS Colloidal Nanoplatelets. ACS Nano, 2020, 14, 9032-9041.	7.3	20
22	Optical-phonon emission in GaAs/AlAs multiple-quantum-well structures determined by hot-electron luminescence. Physical Review B, 1995, 52, 14144-14149.	1.1	19
23	Spintronics of semiconductor, metallic, dielectric, and hybrid structures (100th anniversary of the) Tj ETQq1 1 0.784314 rgBT/Overlo	0.8	19
24	Hole spin polarization in GaAs:Mn ²⁺ /AlAs multiple quantum wells. Physical Review B, 2007, 75, .	1.1	15
25	Orientation of electron spins in hybrid ferromagnet-semiconductor nanostructures. Physica Status Solidi (B): Basic Research, 2014, 251, 1663-1672.	0.7	15
26	Low voltage control of exchange coupling in a ferromagnet-semiconductor quantum well hybrid structure. Nature Communications, 2019, 10, 2899.	5.8	15
27	Hybrid structures of magnetic semiconductors and plasmonic crystals: a novel concept for magneto-optical devices [Invited]. Journal of the Optical Society of America B: Optical Physics, 2012, 29, A103.	0.9	14
28	Direct measurement of the long-range d exchange coupling in a ferromagnet-semiconductor Co/CdMgTe/CdTe quantum well hybrid structure. Physical Review B, 2017, 96, .	1.1	14
29	Ferromagnetic (Ga,Mn)As nanowires grown by Mn-assisted molecular beam epitaxy. Journal of Applied Physics, 2013, 113, .	1.1	13
30	Magneto-optical study of quantum-well electronic structure using disorder-induced resonant acoustic-phonon Raman scattering. Physical Review B, 1995, 51, 14542-14548.	1.1	11
31	Hole spin polarization in the exchange field of the dilute magnetic (Ga,Mn)As semiconductor studied by means of polarized hot-electron photoluminescence spectroscopy. Physical Review B, 2009, 80, .	1.1	11
32	Optical Orientation of Mn^{2+} in GaAs in Weak Longitudinal Magnetic Fields. Physical Review Letters, 2011, 106, 147402.	2.9	11
33	Miniband effects on hot-electron photoluminescence polarization in GaAs/AlAs superlattices. Physical Review B, 1997, 56, 6871-6879.	1.1	10
34	Carrier spin polarization in digital Mn/GaAs ferromagnetic structures studied with hot electron photoluminescence. Physical Review B, 2008, 77, .	1.1	10
35	Spectroscopy of Hot Electron Photoluminescence in GaAs/AlAs Superlattices. Physica Status Solidi (B): Basic Research, 1999, 215, 379-386.	0.7	9
36	Polarization of hot photoluminescence in GaAs/AlAs superlattices. JETP Letters, 1996, 63, 305-310.	0.4	7

#	ARTICLE	IF	CITATIONS
37	Manganese spin dephasing mechanisms in ferromagnetic (Ga,Mn)As. Physical Review B, 2015, 92, .	1.1	7
38	Optical spin orientation of minority holes in a modulation-doped GaAs/(Ga,Al)As quantum well. Physical Review B, 2016, 93, .	1.1	7
39	Exciton and exciton-magnon photoluminescence in the antiferromagnet CuB_2O_4 . Physical Review B, 2020, 102, .	1.1	7
40	(In,Mn)As quantum dots: Molecular-beam epitaxy and optical properties. Semiconductors, 2013, 47, 1037-1040.	0.2	6
41	Electron spin dynamics and optical orientation of Mn ²⁺ ions in GaAs. Journal of Applied Physics, 2013, 113, 136501.	1.1	6
42	Nuclear spin polarization in the electron spin-flip Raman scattering of singly charged (In,Ga)As/GaAs quantum dots. Physical Review B, 2015, 92, .	1.1	6
43	Fine structure of the Mn acceptor in GaAs. Physical Review B, 2016, 93, .	1.1	6
44	Raman scattering by acoustic phonons in semiconductor superlattices. , 1995, , 237-257.		5
45	Electrical control of optical orientation of neutral and negatively charged excitons in n-type semiconductor quantum well. Physical Review B, 2007, 75, .	1.1	5
46	Observation of Insulating Nanoislands in Ferromagnetic GaMnAs. Physical Review Letters, 2009, 102, 256401.	2.9	5
47	(In,Mn)As multilayer quantum dot structures. Applied Physics Letters, 2014, 105, .	1.5	4
48	Coexistence of Short- and Long-Range Ferromagnetic Proximity Effects in a Fe/(Cd,Mg)Te/CdTe Quantum Well Hybrid Structure. Nano Letters, 2021, 21, 2370-2375.	4.5	4
49	Acoustic-phonon Raman scattering from Wannier-Stark levels in GaAs/AlAs superlattices. Physical Review B, 1997, 56, 1041-1044.	1.1	3
50	Study of the Two-Dimensional to Quasi-Three-Dimensional Transition in GaAs/AlAs Superlattices by Polarized Hot Photoluminescence. Physica Status Solidi (B): Basic Research, 1997, 204, 141-146.	0.7	3
51	Studying the formation of self-assembled (In,Mn)As quantum dots. Technical Physics Letters, 2012, 38, 460-462.	0.2	3
52	Interfacial Ferromagnetism in a Co/CdTe Ferromagnet/Semiconductor Quantum Well Hybrid Structure. Physics of the Solid State, 2018, 60, 1578-1581.	0.2	3
53	MBE synthesis of (In,Mn)As quantum dots using Mn selective doping. Journal of Crystal Growth, 2017, 468, 680-682.	0.7	2
54	Dimensionality effects in the hot-electron photoluminescence of gallium arsenide: 2D-quasi-3D transition. Semiconductors, 1999, 33, 681-683.	0.2	1

#	ARTICLE	IF	CITATIONS
55	Optical momentum alignment and spin orientation of hot electrons in GaAs/AlAs superlattices. Semiconductor Science and Technology, 2008, 23, 114016.	1.0	1
56	Efficiency enhancement of the coherent electron spin-flip Raman scattering through thermal phonons in (In,Ga)As/GaAs quantum dots. Physical Review B, 2017, 95, .	1.1	1
57	Confinement effect on hole polarization in (Ga,Mn)As/AlAs diluted magnetic semiconductor multiple quantum wells. Physics of the Solid State, 2017, 59, 2262-2267.	0.2	1
58	Basic Requirements of Spin-Flip Raman Scattering on Excitonic Resonances and Its Modulation through Additional High-Energy Illumination in Semiconductor Heterostructures. Physics of the Solid State, 2018, 60, 1611-1617.	0.2	1
59	Effect of electric current on the optical orientation of interface electrons in AlGaAs/GaAs heterostructures. Physical Review B, 2020, 102, .	1.1	1
60	Hot-Electron Photoluminescence of Para- and Ferromagnetic (Ga,Mn)As Layers. AIP Conference Proceedings, 2007, , .	0.3	1
61	Raman studies of interface properties in semiconductor quantum wells and superlattices. Physica Scripta, 1994, T55, 45-49.	1.2	0
62	Raman spectroscopy of resonance exciton tunneling in GaAs/AlAs superlattices in electric fields. Physics of the Solid State, 1998, 40, 761-763.	0.2	0
63	Hot photoluminescence spectroscopy: Investigation of two-dimensional structures. Physics of the Solid State, 1999, 41, 708-711.	0.2	0
64	Magnetic-field-induced transitions between minibands in GaAs/Al _x Ga _{1-x} As superlattices. Semiconductors, 2001, 35, 447-450.	0.2	0
65	Ionization of an exciton moving perpendicular to a magnetic field in the GaAs/Al _x Ga _{1-x} As superlattice. JETP Letters, 2001, 74, 32-35.	0.4	0
66	Vertical transport of hot electrons in GaAs/AlAs superlattices. Semiconductors, 2004, 38, 576-580.	0.2	0
67	Structural, optical, and magnetic properties of (Ga,Mn)As/AlAs multiple quantum well structures. Journal of Vacuum Science & Technology B, 2007, 25, 1460.	1.3	0
68	Energy Structure of an Individual Mn Acceptor in GaAs : Mn. Physics of the Solid State, 2018, 60, 1568-1577.	0.2	0
69	Asymmetric spin transitions of nonthermalized Mn ²⁺ ions in (Zn,Mn)Se-based quantum wells. Physical Review B, 2020, 101, .	1.1	0
70	Fine Structure of Excitons in Quantum Wires. , 2003, , 233-238.		0