

Vf F Sapega

List of Publications by Year in descending order

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70
papers

1,642
citations

361296
20
h-index

289141
40
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70
all docs

70
docs citations

70
times ranked

1639
citing authors

#	ARTICLE	IF	CITATIONS
1	The Landé factors of electrons and holes in lead halide perovskites: universal dependence on the band gap. <i>Nature Communications</i> , 2022, 13, .	5.8	28
2	Coexistence of Short- and Long-Range Ferromagnetic Proximity Effects in a Fe/(Cd,Mg)Te/CdTe Quantum Well Hybrid Structure. <i>Nano Letters</i> , 2021, 21, 2370-2375.	4.5	4
3	Single and Double Electron Spin-Flip Raman Scattering in CdSe Colloidal Nanoplatelets. <i>Nano Letters</i> , 2020, 20, 517-525.	4.5	21
4	Effect of electric current on the optical orientation of interface electrons in AlGaAs/GaAs heterostructures. <i>Physical Review B</i> , 2020, 102, .	1.1	1
5	Exciton and exciton-magnon photoluminescence in the antiferromagnet CuB_2O_4 . <i>Physical Review B</i> , 2020, 102, .	1.1	7
6	Asymmetric spin transitions of nonthermalized Mn^{2+} ions in (Zn,Mn)Se-based quantum wells. <i>Physical Review B</i> , 2020, 101, .	1.1	0
7	Magneto-Optics of Excitons Interacting with Magnetic Ions in CdSe/CdMnS Colloidal Nanoplatelets. <i>ACS Nano</i> , 2020, 14, 9032-9041.	7.3	20
8	Low voltage control of exchange coupling in a ferromagnet-semiconductor quantum well hybrid structure. <i>Nature Communications</i> , 2019, 10, 2899.	5.8	15
9	Spintronics of semiconductor, metallic, dielectric, and hybrid structures (100th anniversary of the) <i>Tj ETQq1 1 0.784314 rgBT /Overlo</i>	0.8	19
10	Addressing the exciton fine structure in colloidal nanocrystals: the case of CdSe nanoplatelets. <i>Nanoscale</i> , 2018, 10, 646-656.	2.8	89
11	Electron and Hole g -Factors and Spin Dynamics of Negatively Charged Excitons in CdSe/CdS Colloidal Nanoplatelets with Thick Shells. <i>Nano Letters</i> , 2018, 18, 373-380.	4.5	50
12	Interfacial Ferromagnetism in a Co/CdTe Ferromagnet/Semiconductor Quantum Well Hybrid Structure. <i>Physics of the Solid State</i> , 2018, 60, 1578-1581.	0.2	3
13	Energy Structure of an Individual Mn Acceptor in GaAs : Mn. <i>Physics of the Solid State</i> , 2018, 60, 1568-1577.	0.2	0
14	Basic Requirements of Spin-Flip Raman Scattering on Excitonic Resonances and Its Modulation through Additional High-Energy Illumination in Semiconductor Heterostructures. <i>Physics of the Solid State</i> , 2018, 60, 1611-1617.	0.2	1
15	Efficiency enhancement of the coherent electron spin-flip Raman scattering through thermal phonons in (In,Ga)As/GaAs quantum dots. <i>Physical Review B</i> , 2017, 95, .	1.1	1
16	Confinement effect on hole polarization in (Ga,Mn)As/AlAs diluted magnetic semiconductor multiple quantum wells. <i>Physics of the Solid State</i> , 2017, 59, 2262-2267.	0.2	1
17	Direct measurement of the long-range p - d exchange coupling in a ferromagnet-semiconductor Co/CdMgTe/CdTe quantum well hybrid structure. <i>Physical Review B</i> , 2017, 96, .	1.1	14
18	MBE synthesis of (In,Mn)As quantum dots using Mn selective doping. <i>Journal of Crystal Growth</i> , 2017, 468, 680-682.	0.7	2

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19	Optical spin orientation of minority holes in a modulation-doped GaAs/(Ga,Al)As quantum well. Physical Review B, 2016, 93, .	1.1	7
20	Fine structure of the Mn acceptor in GaAs. Physical Review B, 2016, 93, .	1.1	6
21	Long-range d exchange interaction in a ferromagnetic semiconductor hybrid structure. Nature Physics, 2016, 12, 85-91.	6.5	47
22	Manganese spin dephasing mechanisms in ferromagnetic (Ga,Mn)As. Physical Review B, 2015, 92, .	1.1	7
23	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
24	(In,Mn)As multilayer quantum dot structures. Applied Physics Letters, 2014, 105, .	1.5	4
25	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
26	Orientation of electron spins in hybrid ferromagnetic semiconductor nanostructures. Physica Status Solidi (B): Basic Research, 2014, 251, 1663-1672.	0.7	15
27	Spin-flip Raman scattering of the exciton in indirect band gap (In,Al)As/AlAs quantum dots. Physical Review B, 2014, 90, .	1.1	20
28	(In,Mn)As quantum dots: Molecular-beam epitaxy and optical properties. Semiconductors, 2013, 47, 1037-1040.	0.2	6
29	Electron spin dynamics and optical orientation of Mn ²⁺ ions in GaAs. Journal of Applied Physics, 2013, 113, 136501.	1.1	6
30	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
31	Ferromagnetic (Ga,Mn)As nanowires grown by Mn-assisted molecular beam epitaxy. Journal of Applied Physics, 2013, 113, .	1.1	13
32	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
33	Excitation of spin waves in ferromagnetic (Ga,Mn)As layers by picosecond strain pulses. Physical Review B, 2012, 85, .	1.1	65
34	Dynamic spin polarization by orientation-dependent separation in a ferromagnetic semiconductor hybrid. Nature Communications, 2012, 3, 959.	5.8	53
35	Studying the formation of self-assembled (In,Mn)As quantum dots. Technical Physics Letters, 2012, 38, 460-462.	0.2	3
36	Optical Orientation of Mn ²⁺ in GaAs in Weak Longitudinal Magnetic Fields. Physical Review Letters, 2011, 106, 147402.	2.9	19

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37	Coherent Magnetization Precession in Ferromagnetic (Ga,Mn)As Induced by Picosecond Acoustic Pulses. <i>Physical Review Letters</i> , 2010, 105, 117204.	2.9	170
38	Observation of Insulating Nanoislands in Ferromagnetic GaMnAs. <i>Physical Review Letters</i> , 2009, 102, 256401.	2.9	5
39	Hole spin polarization in the exchange field of the dilute magnetic (Ga,Mn)As semiconductor studied by means of polarized hot-electron photoluminescence spectroscopy. <i>Physical Review B</i> , 2009, 80, .	1.1	11
40	Optical momentum alignment and spin orientation of hot electrons in GaAs/AlAs superlattices. <i>Semiconductor Science and Technology</i> , 2008, 23, 114016.	1.0	1
41	Carrier spin polarization in digital Mn/GaAs ferromagnetic structures studied with hot electron photoluminescence. <i>Physical Review B</i> , 2008, 77, .	1.1	10
42	Structural, optical, and magnetic properties of (Ga,Mn)As/AlAs multiple quantum well structures. <i>Journal of Vacuum Science & Technology B</i> , 2007, 25, 1460.	1.3	0
43	Electrical control of optical orientation of neutral and negatively charged excitons in n-type semiconductor quantum well. <i>Physical Review B</i> , 2007, 75, .	1.1	5
44	Hole spin polarization in GaAs:Mn/AlAs multiple quantum wells. <i>Physical Review B</i> , 2007, 75, .	1.1	15
45	Hot-Electron Photoluminescence of Para- and Ferromagnetic (Ga,Mn)As Layers. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	1
46	Hot-electron photoluminescence study of the (Ga,Mn)As diluted magnetic semiconductor. <i>Physical Review B</i> , 2006, 73, .	1.1	29
47	Colossal Magnetic Moment of Gd in GaN. <i>Physical Review Letters</i> , 2005, 94, 037205.	2.9	338
48	Polarization of Valence Band Holes in the (Ga,Mn)As Diluted Magnetic Semiconductor. <i>Physical Review Letters</i> , 2005, 94, 137401.	2.9	62
49	Vertical transport of hot electrons in GaAs/AlAs superlattices. <i>Semiconductors</i> , 2004, 38, 576-580.	0.2	0
50	Fine Structure of Excitons in Quantum Wires. , 2003, , 233-238.		0
51	Electronic structure of Mn ions in (Ga,Mn)As diluted magnetic semiconductor. <i>Physical Review B</i> , 2002, 66, .	1.1	36
52	Magnetic-field-induced transitions between minibands in GaAs/Al _x Ga _{1-x} As superlattices. <i>Semiconductors</i> , 2001, 35, 447-450.	0.2	0
53	Ionization of an exciton moving perpendicular to a magnetic field in the GaAs/Al _x Ga _{1-x} As superlattice. <i>JETP Letters</i> , 2001, 74, 32-35.	0.4	0
54	Hot photoluminescence spectroscopy: Investigation of two-dimensional structures. <i>Physics of the Solid State</i> , 1999, 41, 708-711.	0.2	0

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55	Dimensionality effects in the hot-electron photoluminescence of gallium arsenide: 2D-quasi-3D transition. <i>Semiconductors</i> , 1999, 33, 681-683.	0.2	1
56	Spectroscopy of Hot Electron Photoluminescence in GaAs/AlAs Superlattices. <i>Physica Status Solidi (B): Basic Research</i> , 1999, 215, 379-386.	0.7	9
57	Raman spectroscopy of resonance exciton tunneling in GaAs/AlAs superlattices in electric fields. <i>Physics of the Solid State</i> , 1998, 40, 761-763.	0.2	0
58	Miniband effects on hot-electron photoluminescence polarization in GaAs/AlAs superlattices. <i>Physical Review B</i> , 1997, 56, 6871-6879.	1.1	10
59	Acoustic-phonon Raman scattering from Wannier-Stark levels in GaAs/AlAs superlattices. <i>Physical Review B</i> , 1997, 56, 1041-1044.	1.1	3
60	Study of the Two-Dimensional to Quasi-Three-Dimensional Transition in GaAs/AlAs Superlattices by Polarized Hot Photoluminescence. <i>Physica Status Solidi (B): Basic Research</i> , 1997, 204, 141-146.	0.7	3
61	Polarization of hot photoluminescence in GaAs/AlAs superlattices. <i>JETP Letters</i> , 1996, 63, 305-310.	0.4	7
62	Raman scattering by acoustic phonons in semiconductor superlattices. , 1995, , 237-257.		5
63	Magneto-optical study of quantum-well electronic structure using disorder-induced resonant acoustic-phonon Raman scattering. <i>Physical Review B</i> , 1995, 51, 14542-14548.	1.1	11
64	Optical-phonon emission in GaAs/AlAs multiple-quantum-well structures determined by hot-electron luminescence. <i>Physical Review B</i> , 1995, 52, 14144-14149.	1.1	19
65	Interface roughness and homogeneous linewidths in quantum wells and superlattices studied by resonant acoustic-phonon Raman scattering. <i>Physical Review B</i> , 1994, 50, 1792-1806.	1.1	72
66	Resonant Raman scattering due to bound-carrier spin flip in GaAs/Al _x Ga _{1-x} As quantum wells. <i>Physical Review B</i> , 1994, 50, 2510-2519.	1.1	51
67	Raman studies of interface properties in semiconductor quantum wells and superlattices. <i>Physica Scripta</i> , 1994, T55, 45-49.	1.2	0
68	Raman scattering from folded phonon dispersion gaps. <i>Physical Review Letters</i> , 1993, 71, 3035-3038.	2.9	45
69	Secondary emission and acoustic-phonon scattering induced by strong magnetic fields in multiple quantum wells. <i>Physical Review B</i> , 1992, 46, 16005-16011.	1.1	34
70	Spin-flip Raman scattering in GaAs/Al _x Ga _{1-x} As multiple quantum wells. <i>Physical Review B</i> , 1992, 45, 4320-4326.	1.1	71