Wolfram Heimbrodt

List of Publications by Year
in descending order

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81	1,691	304743 22	302126 39
papers	citations	h-index	g-index

82	82	82	1655
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical Properties of (Zn, Mn) and (Cd, Mn) Chalcogenide Mixed Crystals and Superlattices. Physica Status Solidi (B): Basic Research, 1988, 146, 11-62.	1.5	263
2	From N isoelectronic impurities to N-induced bands in the GaNxAs1â^'x alloy. Applied Physics Letters, 2000, 76, 3439-3441.	3.3	180
3	Formation of Zn1-xMnxS Nanowires within Mesoporous Silica of Different Pore Sizes. Journal of the American Chemical Society, 2004, 126, 797-807.	13.7	96
4	Ordered Arrays of II/VI Diluted Magnetic Semiconductor Quantum Wires: Formation within Mesoporous MCM-41 Silica. Chemistry - A European Journal, 2002, 8, 185-194.	3.3	77
5	Intense Intrashell Luminescence of Eu-Doped Single ZnO Nanowires at Room Temperature by Implantation Created Euâ€"O_i Complexes. Nano Letters, 2014, 14, 4523-4528.	9.1	63
6	Spin injection, spin transport and spin coherence. Semiconductor Science and Technology, 2002, 17, 285-297.	2.0	49
7	Ferromagnetic resonance studies of (Ga,Mn)As with MnAs clusters. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 572-576.	2.7	44
8	Interband transitions of quantum wells and device structures containing Ga(N, As) and (Ga, In)(N, As). Semiconductor Science and Technology, 2002, 17, 830-842.	2.0	43
9	Hopping relaxation of excitons in GaInNAs/GaNAs quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 109-112.	0.8	43
10	Peculiarities of the photoluminescence of metastable Ga(N,As,P)/GaP quantum well structures. Physical Review B, 2010, 82, .	3.2	40
11	Optical characterisation of MOVPE-grown Ga1â^'Mn As semimagnetic semiconductor layers. Thin Solid Films, 2000, 364, 209-212.	1.8	34
12	Nonâ€Exponential ZnS:Mn Luminescence Decay Due to Energy Transfer. Physica Status Solidi (B): Basic Research, 1984, 126, K159.	1.5	33
13	Excitation dynamics in polymer-coated semiconductor quantum dots with integrated dye molecules: The role of reabsorption. Journal of Applied Physics, 2009, 106, .	2.5	31
14	Monitoring the sign reversal of the valence band exchange integral in (Ga,Mn)As. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 10, 175-180.	2.7	30
15	Temperature dependent optical properties of pentacene films on zinc oxide. Applied Physics Letters, 2011, 99, 211102.	3.3	30
16	Intralayer and interlayer energy transfer from excitonic states into the Mn3d5shell in diluted magnetic semiconductor structures. Physical Review B, 2003, 68, .	3.2	28
17	Comparison of the Magnetic and Optical Properties of Wideâ€Gap (II,Mn)VI Nanostructures Confined in Mesoporous Silica. European Journal of Inorganic Chemistry, 2005, 2005, 3597-3611.	2.0	28
18	Cd1-xMnxS Diluted Magnetic Semiconductors as Nanostructured Guest Species in Mesoporous Thin-Film Silica Host Media. Advanced Functional Materials, 2005, 15, 168-172.	14.9	28

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19	Spin-Layer and Spin-Valley Locking in CVD-Grown AAâ€²- and AB-Stacked Tungsten-Disulfide Bilayers. Journal of Physical Chemistry C, 2019, 123, 21813-21821.	3.1	27
20	Experimental and theoretical investigation of the conduction band edge ofGaNxP1â^'x. Physical Review B, 2006, 74, .	3.2	25
21	Temperature-resolved optical spectroscopy of pentacene polymorphs: variation of herringbone angles in single-crystals and interface-controlled thin films. Physical Chemistry Chemical Physics, 2016, 18, 3825-3831.	2.8	25
22	Magnetic Interactions in Granular Paramagneticâ€“Ferromagnetic GaAs: Mn/MnAs Hybrids. Journal of Superconductivity and Novel Magnetism, 2006, 18, 315-320.	0.5	23
23	Modification of the Magnetic and Electronic Properties of Ordered Arrays of (II, Mn)VI Quantum Wires Due to Reduced Lateral Dimensions. Physica Status Solidi (B): Basic Research, 2002, 229, 31-34.	1.5	22
24	Tunneling and energy transfer in ZnSe-based semimagnetic double quantum wells. Physical Review B, 1998, 58, 1162-1165.	3.2	20
25	Tailoring the properties of semiconductor nanowires using ion beams. Physica Status Solidi (B): Basic Research, 2010, 247, 2329-2337.	1.5	18
26	Seebeck coefficients of n-type (Ga,In)(N,As), (B,Ga,In)As, and GaAs. Applied Physics Letters, 2008, 93, 042107.	3.3	17
27	Luminescence, energy transfer and anti-Stokes PL in wide band-gap semimagnetic nanostructures. Journal of Luminescence, 2000, 87-89, 344-346.	3.1	16
28	Energy scaling of compositional disorder in Ga(N,P,As)/GaP quantum well structures. Physical Review B, 2012, 86, .	3.2	16
29	Gate Tuning of FÃ¶rster Resonance Energy Transfer in a Graphene - Quantum Dot FET Photo-Detector. Scientific Reports, 2016, 6, 28224.	3.3	16
30	Tuning of the averagepâ^'dexchange in (Ga,Mn)As by modification of the Mn electronic structure. Physical Review B, 2004, 70, .	3.2	15
31	Type I-type II transition in InGaAsâ€“GaNAs heterostructures. Applied Physics Letters, 2005, 86, 081903.	3.3	15
32	Interfacial Molecular Packing Determines Exciton Dynamics in Molecular Heterostructures: The Case of Pentaceneâ€“Perfluoropentacene. ACS Applied Materials & Interfaces, 2017, 9, 42020-42028.	8.0	15
33	Photoluminescence and photoluminescence excitation studies of lateral size effects inZn1â^'xMnxSe/ZnSequantum disk samples of different radii. Physical Review B, 1998, 57, 7114-7118.	3.2	14
34	Spin-Dependent Energy Transfer from Exciton States into the Mn2+(3d5) Internal Transitions. Physica Status Solidi (B): Basic Research, 2002, 229, 781-785.	1.5	14
35	Vibrational properties ofGaAs0.915N0.085under hydrostatic pressures up to20GPa. Physical Review B, 2005, 71, .	3.2	14
36	Excitonic transitions in highly efficient (GaIn)As/Ga(AsSb) type-II quantum-well structures. Applied Physics Letters, 2015, 107, 182104.	3.3	14

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37	The Impact of the Substrate Material on the Optical Properties of 2D WSe2 Monolayers. Semiconductors, 2018, 52, 565-571.	0.5	14
38	Dimensional dependence of the dynamics of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Mn</mml:mi><mml:mspace width="0.2em" /><mml:mn>3</mml:mn><mml:msup><mml:mi>d</mml:mi><mml:mn>5</mml:mn></mml:msup></mml:mrow></mml:math>luminescence in (Zn, Mn)S nanowires and nanobelts. Physical Review B, 2007, 76, .	3.2	13
39	Dimensional dependence of the energy transfer in MBE grown MnS layers. Solid State Communications, 2010, 150, 1092-1094.	1.9	13
40	Quantitative description of the temporal behavior of the internalMn3d5luminescence in ensembles ofZn0.99Mn0.01Squantum dots. Physical Review B, 2007, 75, .	3.2	12
41	Vibrational properties of GaP and GaP1â€“xNx under hydrostatic pressures up to 30 GPa. Physica Status Solidi (B): Basic Research, 2007, 244, 336-341.	1.5	11
42	Effect of localized B and N states on the magneto-transport of (B,Ga,In)As and (Ga,In)(N,As). Physica Status Solidi (B): Basic Research, 2007, 244, 431-436.	1.5	10
43	Influence of Mg-doping on the characteristics of ZnO photoanodes in dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2021, 23, 8393-8402.	2.8	10
44	Intense intraâ€3d luminescence and waveguide properties of single Coâ€doped ZnO nanowires. Physica Status Solidi - Rapid Research Letters, 2013, 7, 886-889.	2.4	9
45	Annealing effects on the composition and disorder of Ga(N,As,P) quantum wells on silicon substrates for laser application. Journal of Crystal Growth, 2014, 402, 169-174.	1.5	9
46	Mechanisms of enhancement of light emission in nanostructures of IIâ€“VI compounds doped with manganese. Low Temperature Physics, 2007, 33, 192-196.	0.6	8
47	Optical and Electrochemical Properties of Anthraquinone Imine Based Dyes for Dyeâ€Sensitized Solar Cells. European Journal of Organic Chemistry, 2016, 2016, 756-767.	2.4	8
48	Optical and magnetic properties of quasi oneâ€dimensional dilute magnetic ZnMnS and antiferromagnetic MnS. Physica Status Solidi (B): Basic Research, 2010, 247, 2522-2536.	1.5	7
49	Influence of growth temperature and disorder on spectral and temporal properties of Ga(NAsP) heterostructures. Journal of Applied Physics, 2016, 119, .	2.5	7
50	Magnetic-field tuning of the alloy-induced disorder in quaternary semimagnetic (Zn, Cd, Mn)Se quantum well structures. Thin Solid Films, 2000, 380, 215-217.	1.8	6
51	Double-scaled disorder in Ga(N,As,P)/GaP multiquantum wells. Journal of Luminescence, 2013, 133, 125-128.	3.1	6
52	Correlation of the nanostructure with optoelectronic properties during rapid thermal annealing of Ga(NAsP) quantum wells grown on Si(001) substrates. Journal of Applied Physics, 2016, 119, 025705.	2.5	6
53	Influence of Codoping on the Magnetoresistance of Paramagnetic (Ga,Mn)As. Journal of Superconductivity and Novel Magnetism, 2003, 16, 159-162.	0.5	5
54	Defect induced changes on the excitation transfer dynamics in ZnS/Mn nanowires. Nanoscale Research Letters, 2011, 6, 228.	5.7	5

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55	Ferromagnetic phase transition in zinc blende (Mn,Cr)S-layers grown by molecular beam epitaxy. Applied Physics Letters, 2012, 100, .	3.3	5
56	Luminescence and energy transfer processes in ensembles and single Mn or Tb doped ZnS nanowires. Journal of Applied Physics, 2013, 113, 073506.	2.5	5
57	Band offset in (Ga, In)As/Ga(As, Sb) heterostructures. Journal of Applied Physics, 2016, 120, .	2.5	5
58	Time-resolved photoluminescence of Ga(NAsP) multiple quantum wells grown on Si substrate: Effects of rapid thermal annealing. Thin Solid Films, 2016, 613, 55-58.	1.8	5
59	Recombination dynamics of type-II excitons in (Ga,In)As/GaAs/Ga(As,Sb) heterostructures. Nanotechnology, 2017, 28, 025701.	2.6	5
60	Concentration and size dependence of the dynamics of the Mn 3d5 luminescence in wire-like arrangements of (Zn,Mn)S nanoparticles. Physica Status Solidi (B): Basic Research, 2006, 243, 839-843.	1.5	4
61	Metal insulator transition in nâ€BGaInAs. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 858-861.	0.8	4
62	Optical measurements of field-induced phenomena of the magnetic phase transition in quasi 2D MnS layers grown by MBE. Journal of Nanoparticle Research, 2011, 13, 5635-5640.	1.9	4
63	Regular Arrays of (Zn,Mn)S Quantum Wires with Well-Defined Diameters in the Nanometer Range. Journal of Superconductivity and Novel Magnetism, 2003, 16, 99-102.	0.5	3
64	Hydrostatic pressure experiments on dilute nitride alloys. Physica Status Solidi (B): Basic Research, 2007, 244, 24-31.	1.5	3
65	Energy transfer in ZnSe/(Zn,Mn)Se double quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1639-1641.	0.8	3
66	Charge transfer at organic-inorganic interfacesâ€"Indoline layers on semiconductor substrates. Journal of Applied Physics, 2016, 120, .	2.5	3
67	Optical determination of charge transfer times from indoline dyes to ZnO in solid state dye-sensitized solar cells. AIP Advances, 2018, 8, 055218.	1.3	3
68	Correlation of optical properties and interface morphology in type-II semiconductor heterostructures. Journal of Physics Condensed Matter, 2019, 31, 014001.	1.8	3
69	Title is missing!. Journal of Superconductivity and Novel Magnetism, 2003, 16, 423-426.	0.5	2
70	Optical properties of Ga(NAsP) lattice matched to Si. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2638-2643.	0.8	2
71	Charge transfer luminescence in (GaIn)As/GaAs/Ga(NAs) double quantum wells. Journal of Luminescence, 2016, 175, 255-259.	3.1	2
72	Transfer mechanisms in semiconductor hybrids with colloidal core/shell quantum dots on ZnSe substrates. Nanotechnology, 2020, 31, 505714.	2.6	2

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73	Influence of nonâ€random incorporation of Mn ions on the magnetotransport properties of Ga_{1â€“x}Mn_xAs alloys. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 819-823.	0.8	1
74	The influence of growth interruption on the luminescence properties of Ga(As,Sb)-based type II heterostructures. Journal of Luminescence, 2021, 231, 117817.	3.1	1
75	Spin-Dependent Energy Transfer from Exciton States into the Mn2+(3d5) Internal Transitions. , 2002, 229, 781.		1
76	Correlation between lasing properties and band alignment of edge emitting lasers with (Ga,In)(N,As)/Ga(N,As) active regions. Physica Status Solidi (B): Basic Research, 2003, 235, 417-422.	1.5	0
77	Magnetic Interactions in Granular Paramagnetic-Ferromagnetic GaAs:Mn/MnAs Hybrids. Lecture Notes in Physics, 2005, , 167-184.	0.7	0
78	Microscopic modeling of the optical properties of dilute nitride semiconductor gain materials. , 2009, , .		0
79	Optical studies on paramagnetic/superparamagnetic ZnO:Co films grown by magnetron sputtering. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1655-1657.	0.8	0
80	Synthesis and characterization of organically linked ZnO nanoparticles. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2212-2216.	1.8	0
81	Spin-Layer- and Spin-Valley-Locking Due to Symmetry in Differently-Stacked Tungsten Disulfide Bilayers. , 2019, , .		0