Gerd Bacher

List of Publications by Year
in descending order

310	7,194	66315	76872
papers	citations	42 h-index	74 g-index

314	314	314	7158
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superradiance of quantum dots. Nature Physics, 2007, 3, 106-110.	6.5	432
2	Fine Structure of Biexciton Emission in Symmetric and Asymmetric CdSe/ZnSe Single Quantum Dots. Physical Review Letters, 1999, 82, 1780-1783.	2.9	357
3	Light-Induced Spontaneous Magnetization in Doped Colloidal Quantum Dots. Science, 2009, 325, 973-976.	6.0	297
4	Biexciton versus Exciton Lifetime in a Single Semiconductor Quantum Dot. Physical Review Letters, 1999, 83, 4417-4420.	2.9	180
5	Single-photon emission of CdSe quantum dots at temperatures up to 200 K. Applied Physics Letters, 2002, 81, 2920-2922.	1.5	169
6	Chemical Vapor Synthesis of Size-Selected Zinc Oxide Nanoparticles. Small, 2005, 1, 540-552.	5.2	144
7	Probing Individual Localization Centers in anInGaN/GaNQuantum Well. Physical Review Letters, 2004, 92, 106802.	2.9	141
8	Minority-carrier lifetime and efficiency of Cu(In,Ga)Se2 solar cells. Applied Physics Letters, 1998, 73, 1224-1226.	1.5	136
9	Single zero-dimensional excitons in CdSe/ZnSe nanostructures. Applied Physics Letters, 1998, 73, 3105-3107.	1.5	134
10	Magnetic polarons in a single diluted magnetic semiconductor quantum dot. Physical Review B, 2000, 62, R7767-R7770.	1.1	134
11	Dynamical Spin Response in Semimagnetic Quantum Dots. Physical Review Letters, 2001, 88, 027402.	2.9	119
12	Exciton dynamics inInxGa1â^'xAs/GaAs quantum-well heterostructures: Competition between capture and thermal emission. Physical Review B, 1993, 47, 9545-9555.	1.1	114
13	Influence of barrier height on carrier dynamics in strainedInxGa1â^'xAs/GaAs quantum wells. Physical Review B, 1991, 43, 9312-9315.	1.1	111
14	The effect of degree of reduction on the electrical properties of functionalized graphene sheets. Applied Physics Letters, 2013, 102, .	1.5	110
15	Spectral diffusion of the exciton transition in a single self-organized quantum dot. Applied Physics Letters, 2000, 76, 1872-1874.	1.5	104
16	Stark effect and polarizability in a single CdSe/ZnSe quantum dot. Applied Physics Letters, 2001, 79, 1033-1035.	1.5	104
17	High-Speed GaN/GaInN Nanowire Array Light-Emitting Diode on Silicon(111). Nano Letters, 2015, 15, 2318-2323.	4.5	103
18	Route to the Smallest Doped Semiconductor: Mn²⁺-Doped (CdSe)₁₃ Clusters. Journal of the American Chemical Society, 2015, 137, 12776-12779.	6.6	91

#	Article	IF	Citations
19	Coherent dynamics of excitonic wave packets. Physical Review Letters, 1993, 70, 3027-3030.	2.9	88
20	Quantum Optical Studies on Individual Acceptor Bound Excitons in a Semiconductor. Physical Review Letters, 2002, 89, 177403.	2.9	88
21	Monitoring Statistical Magnetic Fluctuations on the Nanometer Scale. Physical Review Letters, 2002, 89, 127201.	2.9	86
22	Triggered polarization-correlated photon pairs from a single CdSe quantum dot. Applied Physics Letters, 2003, 83, 1848-1850.	1.5	85
23	Size control of InAs quantum dashes. Applied Physics Letters, 2005, 86, 253112.	1.5	84
24	Chemical Synthesis, Doping, and Transformation of Magic-Sized Semiconductor Alloy Nanoclusters. Journal of the American Chemical Society, 2017, 139, 6761-6770.	6.6	84
25	Highly Luminescent ZnO Quantum Dots Made in a Nonthermal Plasma. Advanced Functional Materials, 2014, 24, 1988-1993.	7.8	80
26	Local Voltage Drop in a Single Functionalized Graphene Sheet Characterized by Kelvin Probe Force Microscopy. Nano Letters, 2011, 11, 3543-3549.	4.5	79
27	The Role of Excitation Energy in Photobrightening and Photodegradation of Halide Perovskite Thin Films. Journal of Physical Chemistry Letters, 2018, 9, 2062-2069.	2.1	74
28	Thermal carrier emission from a semiconductor quantum well. Physical Review B, 1995, 52, 14739-14747.	1.1	64
29	Lateral quantization effects in lithographically defined CdZnSe/ZnSe quantum dots and quantum wires. Applied Physics Letters, 1995, 67, 124-126.	1.5	62
30	Solâ”Gel Synthesis and Spectroscopic Properties of Thick Nanocrystalline CdSe Films. Journal of Physical Chemistry B, 1997, 101, 8898-8906.	1.2	61
31	Longitudinal and transverse fluctuations of magnetization of the excitonic magnetic polaron in a semimagnetic single quantum dot. Physical Review B, 2003, 68, .	1.1	59
32	Optical spectroscopy on individual CdSe/ZnMnSe quantum dots. Applied Physics Letters, 2001, 79, 524-526.	1.5	58
33	Room temperature single photon emission from an epitaxially grown quantum dot. Applied Physics Letters, 2012, 100, 061114.	1.5	58
34	Phonon Interaction and Phase Transition in Single Formamidinium Lead Bromide Quantum Dots. Nano Letters, 2018, 18, 4440-4446.	4.5	57
35	First order distributed feedback operation in ZnSe based laser structures. Applied Physics Letters, 1995, 67, 1-3.	1.5	56
36	Quantum dot formation by segregation enhanced CdSe reorganization. Journal of Applied Physics, 2002, 92, 6546-6552.	1.1	51

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37	Excitonic lifetimes in thinInxGa1â^'xAs/InP quantum wells. Physical Review B, 1989, 39, 6257-6259.	1.1	50
38	Giant Excitonic Exchange Splittings at Zero Field in Single Colloidal CdSe Quantum Dots Doped with Individual Mn²⁺ Impurities. Nano Letters, 2016, 16, 6371-6377.	4.5	50
39	Influence of the strain on the formation of GaInAs/GaAs quantum structures. Journal of Crystal Growth, 2006, 286, 6-10.	0.7	49
40	Investigation of dark line defects induced by catastrophic optical damage in broad-area AlGaInP laser diodes. Applied Physics Letters, 2006, 89, 101111.	1.5	49
41	Digital Doping in Magic-Sized CdSe Clusters. ACS Nano, 2016, 10, 7135-7141.	7.3	49
42	Fine Structure of the Optical Absorption Resonance in Cs₂AgBiBr₆ Double Perovskite Thin Films. ACS Energy Letters, 2020, 5, 559-565.	8.8	45
43	Coherent spin oscillations in bulk GaAs at room temperature. Applied Physics Letters, 2006, 89, 231101.	1.5	41
44	Room temperature emission from CdSeâ•ZnSSeâ•MgS single quantum dots. Applied Physics Letters, 2007, 90, 101114.	1.5	41
45	Quantum Dot/Light-Emitting Electrochemical Cell Hybrid Device and Mechanism of Its Operation. ACS Applied Materials & Interfaces, 2016, 8, 24692-24698.	4.0	41
46	All-inorganic light emitting device based on ZnO nanoparticles. Applied Physics Letters, 2009, 94, .	1.5	40
47	Polarization-dependent formation of biexcitons in (Zn,Cd)Se/ZnSe quantum wells. Physical Review B, 1997, 55, 9866-9871.	1.1	39
48	Spin injection into a single self-assembled quantum dot. Physical Review B, 2004, 69, .	1.1	38
49	Material and doping transitions in single GaAs-based nanowires probed by Kelvin probe force microscopy. Nanotechnology, 2009, 20, 385702.	1.3	38
50	Fabrication and analysis of Cr-doped ZnO nanoparticles from the gas phase. Nanotechnology, 2009, 20, 135604.	1.3	38
51	Solution-Processed CuInS₂-Based White QD-LEDs with Mixed Active Layer Architecture. ACS Applied Materials & Interfaces, 2017, 9, 11224-11230.	4.0	37
52	Scalable Large-Area pâ€“iâ€“n Light-Emitting Diodes Based on WS₂ Monolayers Grown via MOCVD. ACS Photonics, 2019, 6, 1832-1839.	3.2	36
53	Resonant micro-Raman investigations of the ZnSeâ€“LO splitting in IIâ€“VI semiconductor quantum wires. Journal of Applied Physics, 1997, 81, 1446-1450.	1.1	34
54	Polarization dynamics in self-assembled CdSe/ZnSe quantum dots:â€ƒThe role of excess energy. Physical Review B, 2003, 67, .	1.1	33

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55	spâ€“d Exchange Interactions in Wave Function Engineered Colloidal CdSe/Mn:CdS Hetero-Nanoplatelets. Nano Letters, 2018, 18, 2047-2053.	4.5	32
56	Flexible Largeâ€Area Lightâ€Emitting Devices Based on WS₂ Monolayers. Advanced Optical Materials, 2020, 8, 2000694.	3.6	32
57	Spatially resolved photoelectric performance of axial GaAs nanowire pn-diodes. Nano Research, 2011, 4, 987-995.	5.8	31
58	Quantum Confinement-Controlled Exchange Coupling in Manganese(II)-Doped CdSe Two-Dimensional Quantum Well Nanoribbons. Nano Letters, 2012, 12, 5311-5317.	4.5	31
59	Electrical investigation of V-defects in GaN using Kelvin probe and conductive atomic force microscopy. Applied Physics Letters, 2008, 93, 022107.	1.5	30
60	Water-free synthesis of ZnO quantum dots for application as an electron injection layer in light-emitting electrochemical cells. Journal of Materials Chemistry C, 2017, 5, 2344-2351.	2.7	30
61	Large-area MoS 2 deposition via MOVPE. Journal of Crystal Growth, 2017, 464, 100-104.	0.7	30
62	Single-electron charging of a self-assembled IIâ€“VI quantum dot. Applied Physics Letters, 2003, 82, 3946-3948.	1.5	29
63	Low Resistive Edge Contacts to CVDâ€Grown Graphene Using a CMOS Compatible Metal. Annalen Der Physik, 2017, 529, 1600410.	0.9	29
64	Spin injection light-emitting diode with vertically magnetized ferromagnetic metal contacts. Journal of Applied Physics, 2006, 99, 073907.	1.1	28
65	Estimation of Sidewall Nonradiative Recombination in GaInAsP/InP Wire Structures Fabricated by Low Energy Electron-Cyclotron-Resonance Reactive-Ion-Beam-Etching. Japanese Journal of Applied Physics, 1998, 37, 3576-3584.	0.8	27
66	Temperature-power dependence of catastrophic optical damage in AlGaInP laser diodes. Applied Physics Letters, 2007, 91, 041115.	1.5	26
67	Performance Enhancement by ZnO Nanoparticle Layer in Hybrid Ionic Transition Metal Complexâ€Lightâ€Emitting Electrochemical Cells (iTMCâ€LECs). Advanced Materials Technologies, 2017, 2, 1600215.	3.0	26
68	Fabrication of CdZnSe/ZnSe quantum dots and quantum wires by electron beam lithography and wet chemical etching. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1995, 13, 2792.	1.6	25
69	Exciton dephasing in ZnSe quantum wires. Physical Review B, 1998, 57, 1797-1800.	1.1	25
70	Size dependence of strain relaxation and lateral quantization in deep etchedCdxZn1â^'xSe/ZnSequantum wires. Physical Review B, 1998, 57, 15439-15447.	1.1	25
71	Metalorganic Vapor-Phase Epitaxy Growth Parameters for Two-Dimensional MoS2. Journal of Electronic Materials, 2018, 47, 910-916.	1.0	25
72	Magnetic imprinting of submicron ferromagnetic wires on a diluted magnetic semiconductor quantum well. Applied Physics Letters, 2004, 84, 2826-2828.	1.5	24

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73	Buried single CdTe/CdMnTe quantum dots realized by focused ion beam lithography. Applied Physics Letters, 1999, 75, 956-958.	1.5	23
74	Resonance Raman spectroscopy on strain relaxed CdZnSe/ZnSe quantum wires. Journal of Raman Spectroscopy, 2000, 31, 959-963.	1.2	23
75	Voltage drop in an (AlxGa1â^'x)0.5In0.5P light-emitting diode probed by Kelvin probe force microscopy. Applied Physics Letters, 2006, 89, 103522.	1.5	23
76	Improved luminescence properties of MoS₂ monolayers grown via MOCVD: role of pre-treatment and growth parameters. Nanotechnology, 2018, 29, 295704.	1.3	23
77	Design and Realization of White Quantum Dot Light-Emitting Electrochemical Cell Hybrid Devices. ACS Applied Materials & Interfaces, 2018, 10, 42637-42646.	4.0	23
78	Exciton dynamics for extended monolayer islands in thinIn0.53Ga0.47As/InP quantum wells. Physical Review B, 1992, 45, 9136-9144.	1.1	22
79	Current-Induced Magnetic Polarons in a Colloidal Quantum-Dot Device. Nano Letters, 2017, 17, 4768-4773.	4.5	22
80	Co²⁺-Doping of Magic-Sized CdSe Clusters: Structural Insights via Ligand Field Transitions. Nano Letters, 2018, 18, 7350-7357.	4.5	21
81	Optical study of interdiffusion in CdTe and ZnSe based quantum wells. Journal of Crystal Growth, 1994, 138, 362-366.	0.7	20
82	Be-induced island formation in CdSe/ZnSe heterostructures: Ensemble versus single dot studies. Physical Review B, 2000, 62, 12609-12612.	1.1	20
83	Be-enhanced CdSe island formation in CdSe/ZnSe heterostructures. Journal of Applied Physics, 2000, 88, 7051-7055.	1.1	20
84	Spinâ€“spin interaction in magnetic semiconductor quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 26, 37-44.	1.3	20
85	Electrically driven single quantum dot emitter operating at room temperature. Applied Physics Letters, 2008, 93, .	1.5	20
86	Realization of Red Iridium-Based Ionic Transition Metal Complex Light-Emitting Electrochemical Cells (iTMC-LECs) by Interface-Induced Color Shift. ACS Applied Materials & Interfaces, 2019, 11, 22612-22620.	4.0	20
87	WS₂ monolayer-based light-emitting devices in a vertical pâ€“n architecture. Nanoscale, 2019, 11, 8372-8379.	2.8	20
88	Directed Exciton Magnetic Polaron Formation in a Single Colloidal Mn²⁺:CdSe/CdS Quantum Dot. Nano Letters, 2020, 20, 1896-1906.	4.5	20
89	Localization of excitons in ultrathin CdS/ZnS quantum structures. Journal of Crystal Growth, 1998, 184-185, 320-324.	0.7	19
90	Nonlinear emission in IIâ€“VI pillar microcavities: Strong versus weak coupling. Applied Physics Letters, 2004, 84, 1435-1437.	1.5	19

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91	p-Si/n-ZnO Nanocrystal Heterojunction Light Emitting Device. Applied Physics Express, 2012, 5, 035001.	1.1	19
92	Gate control of carrier distribution in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>k</mml:mi></mml:math>-space in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm and bilayer crystals. Physical Review B, 2015, 91, .	1.1	19
93	Optical Probing of Crystal Lattice Configurations in Single CsPbBr₃ Nanoplatelets. Nano Letters, 2021, 21, 9085-9092.	4.5	19
94	Quasiphase matched second harmonic generation in ZnSe waveguide structures modulated by focused ion beam implantation. Applied Physics Letters, 1998, 73, 584-586.	1.5	18
95	Manipulating single quantum dot states in a lateral electric field. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 147-150.	1.3	18
96	Spin injection into a single self-assembled quantum dot in a p-i-n II-VI/III-V structure. Applied Physics Letters, 2007, 90, 093110.	1.5	18
97	Green-yellow emitting hybrid light emitting electrochemical cell. Journal of Materials Chemistry C, 2017, 5, 12062-12068.	2.7	18
98	Biexciton formation inCdxZn1â^'xSe/ZnSequantum-dot and quantum-well structures. Physical Review B, 1997, 56, 15261-15263.	1.1	17
99	Recombination dynamics in ZnO nanoparticles produced by chemical vapor synthesis. Journal of Applied Physics, 2007, 102, 023524.	1.1	17
100	On the origin of contact resistances in graphene devices fabricated by optical lithography. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	17
101	Well width dependence of the carrier life time in InGaAs/InP quantum wells. Superlattices and Microstructures, 1989, 5, 227-230.	1.4	16
102	Fabrication and optical characterization of wet chemically etched CdTe/CdMgTe wires. Journal of Crystal Growth, 1994, 138, 638-642.	0.7	16
103	Recombination and thermal emission of excitons in shallow CdTe/Cd1â^'xMgxTe quantum wells. Physical Review B, 1996, 53, 4544-4548.	1.1	16
104	First order gain and index coupled distributed feedback lasers in ZnSeâ€based structures with finely tunable emission wavelengths. Applied Physics Letters, 1996, 68, 599-601.	1.5	16
105	Biexciton binding energy and excitonâ€“LO-phonon scattering in ZnSe quantum wires. Physical Review B, 2001, 63, .	1.1	16
106	Optical confinement in CdTe-based photonic dots. Applied Physics Letters, 2002, 80, 1322-1324.	1.5	16
107	Coherent dynamics of locally interacting spins in self-assembledCd1â^'xMnxSeâ•ZnSequantum dots. Physical Review B, 2006, 73, .	1.1	16
108	Valence-Band Mixing Effects in the Upper-Excited-State Magneto-Optical Responses of Colloidal Mn²⁺-Doped CdSe Quantum Dots. ACS Nano, 2014, 8, 12669-12675.	7.3	16

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109	ZnSe-Based Laser Diodes and LEDs Grown on ZnSe and GaAs Substrates. Physica Status Solidi (B): Basic Research, 1997, 202, 683-693.	0.7	15
110	Raman investigation of CdxZn1â^'xSe/ZnSe quantum wires: length dependence of the strain relaxation. Journal of Crystal Growth, 2000, 214-215, 787-791.	0.7	15
111	Tunneling of zero-dimensional excitons in a single pair of correlated quantum dots. Physical Review B, 2001, 64, .	1.1	15
112	Local spin manipulation in ferromagnet-semiconductor hybrids. Applied Physics Letters, 2007, 90, 051916.	1.5	15
113	A light-emitting electrochemical cell (LEC) containing a hole-blocking layer of TmPyPB. Journal of Materials Chemistry C, 2018, 6, 9742-9748.	2.7	15
114	Electron capture processes in optically excited In0.53Ga0.47As/InP quantum wells. Applied Physics Letters, 1989, 55, 933-935.	1.5	14
115	Deep Etched ZnSeâ€Based Nanostructures for Future Optoelectronic Applications. Physica Status Solidi (B): Basic Research, 1995, 187, 371-377.	0.7	14
116	Photoluminescence efficiency study of wet chemically etched CdTe/Cd1â^'xMgxTe wires. Applied Physics Letters, 1995, 66, 1815-1817.	1.5	14
117	Strongly index-guided II-VI laser diodes. IEEE Photonics Technology Letters, 2000, 12, 236-238.	1.3	14
118	Carrier transfer across a 2D-3D semiconductor heterointerface: The role of momentum mismatch. Physical Review B, 2017, 95, .	1.1	14
119	Selective thermal interdiffusion using patterned SiO2 masks:â€,An alternative approach to buried CdTe/CdMgTe quantum wires. Applied Physics Letters, 2001, 78, 2937-2939.	1.5	13
120	Lowâ€‹<scp>T</scp>emperature <scp>MOCVD</scp> of Crystalline Ga₂<scp>O</scp>₃ Nanowires using ^t<scp>B</scp>u₃<scp>G</scp>a. Chemical Vapor Deposition, 2013, 19, 347-354.	1.4	13
121	H2S-free Metal-Organic Vapor Phase Epitaxy of Coalesced 2D WS2 Layers on Sapphire. MRS Advances, 2019, 4, 593-599.	0.5	13
122	Thermal stability of (Zn,Cd)(Se,S) heterostructures grown on GaAs. Journal of Applied Physics, 1996, 79, 4368.	1.1	12
123	Anisotropic Polarization Properties of Photoluminescence from GaInAsP/InP Quantum-Wire Structures Fabricated by Two-Step Organometallic Vapor Phase Epitaxy Growth. Japanese Journal of Applied Physics, 1998, 37, L46-L49.	0.8	12
124	Recombination dynamics in dry-etched (Cd,Zn)Se/ZnSe nanostructures: Influence of exciton localization. Physical Review B, 1999, 59, 2888-2893.	1.1	12
125	Electrical charging of a single quantum dot by a spin polarized electron. Applied Physics Letters, 2008, 93, 073107.	1.5	12
126	Recombination dynamics in single GaAs-nanowires with an axial heterojunction: n- versus p-doped areas. Journal of Applied Physics, 2013, 113, 174303.	1.1	12

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127	Proof of Equivalent Catalytic Functionality upon Photonâ€Induced and Thermal Activation of Supported Isolated Vanadia Species in Methanol Oxidation. ChemCatChem, 2018, 10, 2360-2364.	1.8	12
128	Photocatalytic Methanol Oxidation by Supported Vanadium Oxide Species: Influence of Support and Degree of Oligomerization. European Journal of Inorganic Chemistry, 2018, 2018, 3725-3735.	1.0	12
129	Graphene as a Transparent Conductive Electrode in GaN-Based LEDs. Materials, 2022, 15, 2203.	1.3	12
130	Correlation between the exciton mobility and the excitonic linewidth in shallow InxGa1â^'xAs/GaAs quantum wells. Applied Physics Letters, 1992, 61, 702-704.	1.5	11
131	Wire-width dependence of the LO-phonon splitting and photoluminescence energy inZnSe/Cd0.35Zn0.65Sequantum wires. Physical Review B, 1997, 56, 7469-7476.	1.1	11
132	Biexciton Binding Energy in ZnSe Quantum Wells and Quantum Wires. Physica Status Solidi (B): Basic Research, 2002, 231, 11-18.	0.7	11
133	Dynamic Nuclear Spin Resonance in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>-GaAs. Physical Review Letters, 2011, 107, 167601.	2.9	11
134	Nanoconfinementâ€Controlled Synthesis of Highly Active, Multinary Nanoplatelet Catalysts from Lamellar Magicâ€Sized Nanocluster Templates. Advanced Functional Materials, 2021, 31, 2107447.	7.8	11
135	ZnSe-based DBR-laser diode. Electronics Letters, 1995, 31, 2184-2185.	0.5	10
136	Relaxation of hot excitons in inhomogeneously broadenedCdxZn1â^'xSe/ZnSenanostructures. Physical Review B, 1997, 56, 6868-6870.	1.1	10
137	Optical Spectroscopy on Non-Magnetic and Semimagnetic Single Quantum Dots in External Fields. Physica Status Solidi (B): Basic Research, 2002, 229, 415-422.	0.7	10
138	Influence of Capping Conditions on CdSe/ZnSe Quantum Dot Formation. Physica Status Solidi (B): Basic Research, 2002, 229, 497-501.	0.7	10
139	Photoluminescence spectroscopy on single CdSe quantum dots in a semimagnetic ZnMnSe matrix. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 512-515.	1.3	10
140	In situ lateral growth control of optically efficient quantum structures. Applied Physics Letters, 2003, 83, 446-448.	1.5	10
141	Local control of spin polarization in a semiconductor by microscale current loops. Applied Physics Letters, 2008, 93, 141902.	1.5	10
142	Low injection losses in InGaN/GaN LEDs: The correlation of photoluminescence, electroluminescence, and photocurrent measurements. Journal of Applied Physics, 2018, 123, 214502.	1.1	10
143	MOVPE of Large-Scale MoS2/WS2, WS2/MoS2, WS2/Graphene and MoS2/Graphene 2D-2D Heterostructures for Optoelectronic Applications. MRS Advances, 2020, 5, 1625-1633.	0.5	10
144	Magnetic Polaron Formation Dynamics in Mn2+-Doped Colloidal Nanocrystals up to Room Temperature. Journal of the Korean Physical Society, 2011, 58, 1261-1266.	0.3	10

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145	Optical Study of Intermixing in CdTe/CdMgTe Quantum Wells. Japanese Journal of Applied Physics, 1994, 33, L247-L249.	0.8	9
146	Stimulated emission from a (CdMg)Te separate confinement quantum well laser. Journal of Applied Physics, 1994, 75, 5456-5458.	1.1	9
147	Modulated energy relaxation of photoexcited carriers into the excitonic ground state in shallow quantum wells. Solid State Communications, 1995, 95, 15-19.	0.9	9
148	Room temperature emission in narrow (14 nm) quantum wires with strong lateral confinement effects. Journal of Crystal Growth, 1996, 159, 455-458.	0.7	9
149	Phonon interaction of single excitons in CdSe/ZnSe quantum dot structures. Journal of Luminescence, 1999, 83-84, 305-308.	1.5	9
150	Optical Spectroscopy on One and Two Exciton States in ZnSe-Based Single Quantum Dots. Physica Status Solidi A, 2000, 178, 323-326.	1.7	9
151	Excitation Spectroscopy on Single Quantum Dots and Single Pairs of Quantum Dots. Physica Status Solidi (B): Basic Research, 2002, 229, 503-507.	0.7	9
152	Controlled self-assembly of semiconductor quantum dots using shadow masks. Applied Physics Letters, 2003, 82, 4349-4351.	1.5	9
153	Precession of localized spins in an inhomogeneous magnetic fringe field. Physical Review B, 2008, 77, .	1.1	9
154	Direct growth of graphene on Ge(100) and Ge(110) via thermal and plasma enhanced CVD. Scientific Reports, 2020, 10, 12938.	1.6	9
155	Role of cooperative factors in the photocatalytic activity of Ba and Mn doped BiFeO₃ nanoparticles. Nanoscale Advances, 2021, 3, 5830-5840.	2.2	9
156	Link between Structural and Optical Properties of Co_xFe_{3â€“x}O₄ Nanoparticles and Thin Films with Different Co/Fe Ratios. Journal of Physical Chemistry C, 2021, 125, 14356-14365.	1.5	9
157	Progress and Challenges of InGaN/GaN-Based Coreâ€“Shell Microrod LEDs. Materials, 2022, 15, 1626.	1.3	9
158	Excitonic lifetimes in (Zn,Cd)Se/ZnSe and ZnSe/Zn(Se,S) quantum wires. Physical Review B, 1996, 53, R4233-R4236.	1.1	8
159	Fabrication of dry etched CdZnSe/ZnSe quantum wires by thermally assisted electron cyclotron resonance etching. Applied Physics Letters, 1997, 71, 344-346.	1.5	8
160	Photoluminescence spectroscopy of single crystalline ZnO-nanoparticles from the gas phase. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 1014-1017.	0.8	8
161	Defect investigation and temperature analysis of high-power AlGaInP laser diodes during catastrophic optical damage. Journal of Materials Science: Materials in Electronics, 2008, 19, 155-159.	1.1	8
162	Electrically driven ZnO nanoparticle light emitting device. Electronics Letters, 2008, 44, 1485.	0.5	8

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163	Manipulation of spin states in a semiconductor by microscale magnets. Journal Physics D: Applied Physics, 2008, 41, 164007.	1.3	8
164	Tunable quantum coupling in a II-VI quantum dot molecule. Journal of Applied Physics, 2008, 103, 113520.	1.1	8
165	Subnanosecond magnetization dynamics induced by a pulsed magnetic field in diluted magnetic semiconductor quantum wells. Physical Review B, 2013, 87, .	1.1	8
166	Showerhead-assisted chemical vapor deposition of CsPbBr3 films for LED applications. Journal of Materials Research, 2021, 36, 1813-1823.	1.2	8
167	Transfer-free, scalable photodetectors based on MOCVD-grown 2D-heterostructures. 2D Materials, 2021, 8, 045015.	2.0	8
168	Phase matched second harmonie generation using a Ï‡(2) modulated optical waveguide. Journal of Luminescence, 1997, 72-74, 87-89.	1.5	7
169	High temperature operation of II-VI ridge-waveguide laser diodes. Electronics Letters, 1998, 34, 2032.	0.5	7
170	Raman investigation of CdxZn1â^'xSe/ZnSe quantum wires: Strain relaxation and excitation profile. Journal of Applied Physics, 2000, 88, 764-771.	1.1	7
171	Electric field tuning of spin splitting in a quantum dot coupled to a semimagnetic quantum dot. Journal of Applied Physics, 2012, 111, .	1.1	7
172	Electrically driven single photon emission from a CdSe/ZnSSe/MgS semiconductor quantum dot. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1256-1259.	0.8	7
173	Electrically driven single photon emission from a CdSe/ZnSSe single quantum dot at 200â€‰K. Applied Physics Letters, 2014, 105, .	1.5	7
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