

Gerd Bacher

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285
papers

6,195
citations

39
h-index

69
g-index

314
ext. papers

6,705
ext. citations

4.3
avg, IF

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L-index

| # | Paper | IF | Citations |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 285 | Fine Structure of Biexciton Emission in Symmetric and Asymmetric CdSe/ZnSe Single Quantum Dots. <i>Physical Review Letters</i> , 1999 , 82, 1780-1783 | 7.4 | 338 |
| 284 | Superradiance of quantum dots. <i>Nature Physics</i> , 2007 , 3, 106-110 | 16.2 | 324 |
| 283 | Light-induced spontaneous magnetization in doped colloidal quantum dots. <i>Science</i> , 2009 , 325, 973-6 | 33.3 | 268 |
| 282 | Biexciton versus Exciton Lifetime in a Single Semiconductor Quantum Dot. <i>Physical Review Letters</i> , 1999 , 83, 4417-4420 | 7.4 | 164 |
| 281 | Single-photon emission of CdSe quantum dots at temperatures up to 200 K. <i>Applied Physics Letters</i> , 2002 , 81, 2920-2922 | 3.4 | 157 |
| 280 | Chemical vapor synthesis of size-selected zinc oxide nanoparticles. <i>Small</i> , 2005 , 1, 540-52 | 11 | 135 |
| 279 | Magnetic polarons in a single diluted magnetic semiconductor quantum dot. <i>Physical Review B</i> , 2000 , 62, R7767-R7770 | 3.3 | 129 |
| 278 | Single zero-dimensional excitons in CdSe/ZnSe nanostructures. <i>Applied Physics Letters</i> , 1998 , 73, 3105-3107 | 3.4 | 129 |
| 277 | Probing individual localization centers in an InGaN/GaN quantum well. <i>Physical Review Letters</i> , 2004 , 92, 106802 | 7.4 | 124 |
| 276 | Dynamical spin response in semimagnetic quantum dots. <i>Physical Review Letters</i> , 2002 , 88, 027402 | 7.4 | 116 |
| 275 | Minority-carrier lifetime and efficiency of Cu(In,Ga)Se ₂ solar cells. <i>Applied Physics Letters</i> , 1998 , 73, 1224-1226 | 3.4 | 116 |
| 274 | Exciton dynamics in In _x Ga _{1-x} As/GaAs quantum-well heterostructures: Competition between capture and thermal emission. <i>Physical Review B</i> , 1993 , 47, 9545-9555 | 3.3 | 105 |
| 273 | Influence of barrier height on carrier dynamics in strained In _x Ga _{1-x} As/GaAs quantum wells. <i>Physical Review B</i> , 1991 , 43, 9312-9315 | 3.3 | 102 |
| 272 | The effect of degree of reduction on the electrical properties of functionalized graphene sheets. <i>Applied Physics Letters</i> , 2013 , 102, 023114 | 3.4 | 98 |
| 271 | Spectral diffusion of the exciton transition in a single self-organized quantum dot. <i>Applied Physics Letters</i> , 2000 , 76, 1872-1874 | 3.4 | 96 |
| 270 | Stark effect and polarizability in a single CdSe/ZnSe quantum dot. <i>Applied Physics Letters</i> , 2001 , 79, 1033-1035 | 3.4 | 93 |
| 269 | High-speed GaN/GaNN nanowire array light-emitting diode on silicon(111). <i>Nano Letters</i> , 2015 , 15, 2318-2325 | 3.5 | 84 |

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| 268 | Monitoring statistical magnetic fluctuations on the nanometer scale. <i>Physical Review Letters</i> , 2002 , 89, 127201 | 7.4 | 84 |
| 267 | Quantum optical studies on individual acceptor bound excitons in a semiconductor. <i>Physical Review Letters</i> , 2002 , 89, 177403 | 7.4 | 77 |
| 266 | Triggered polarization-correlated photon pairs from a single CdSe quantum dot. <i>Applied Physics Letters</i> , 2003 , 83, 1848-1850 | 3.4 | 76 |
| 265 | Local voltage drop in a single functionalized graphene sheet characterized by Kelvin probe force microscopy. <i>Nano Letters</i> , 2011 , 11, 3543-9 | 11.5 | 75 |
| 264 | Coherent dynamics of excitonic wave packets. <i>Physical Review Letters</i> , 1993 , 70, 3027-3030 | 7.4 | 75 |
| 263 | Size control of InAs quantum dashes. <i>Applied Physics Letters</i> , 2005 , 86, 253112 | 3.4 | 74 |
| 262 | Highly Luminescent ZnO Quantum Dots Made in a Nonthermal Plasma. <i>Advanced Functional Materials</i> , 2014 , 24, 1988-1993 | 15.6 | 73 |
| 261 | Chemical Synthesis, Doping, and Transformation of Magic-Sized Semiconductor Alloy Nanoclusters. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6761-6770 | 16.4 | 69 |
| 260 | Route to the Smallest Doped Semiconductor: Mn(2+)-Doped (CdSe) ₁₃ Clusters. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12776-9 | 16.4 | 69 |
| 259 | Thermal carrier emission from a semiconductor quantum well. <i>Physical Review B</i> , 1995 , 52, 14739-14747 | 3.3 | 63 |
| 258 | Longitudinal and transverse fluctuations of magnetization of the excitonic magnetic polaron in a semimagnetic single quantum dot. <i>Physical Review B</i> , 2003 , 68, | 3.3 | 58 |
| 257 | The Role of Excitation Energy in Photobrightening and Photodegradation of Halide Perovskite Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2062-2069 | 6.4 | 57 |
| 256 | Lateral quantization effects in lithographically defined CdZnSe/ZnSe quantum dots and quantum wires. <i>Applied Physics Letters</i> , 1995 , 67, 124-126 | 3.4 | 56 |
| 255 | Optical spectroscopy on individual CdSe/ZnMnSe quantum dots. <i>Applied Physics Letters</i> , 2001 , 79, 524-526 | 3.4 | 55 |
| 254 | Sol-Gel Synthesis and Spectroscopic Properties of Thick Nanocrystalline CdSe Films. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 8898-8906 | 3.4 | 53 |
| 253 | Room temperature single photon emission from an epitaxially grown quantum dot. <i>Applied Physics Letters</i> , 2012 , 100, 061114 | 3.4 | 51 |
| 252 | Quantum dot formation by segregation enhanced CdSe reorganization. <i>Journal of Applied Physics</i> , 2002 , 92, 6546-6552 | 2.5 | 48 |
| 251 | Excitonic lifetimes in thin In _x Ga _{1-x} As/InP quantum wells. <i>Physical Review B</i> , 1989 , 39, 6257-6259 | 3.3 | 47 |

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| 250 | Giant Excitonic Exchange Splittings at Zero Field in Single Colloidal CdSe Quantum Dots Doped with Individual Mn Impurities. <i>Nano Letters</i> , 2016 , 16, 6371-6377 | 11.5 | 42 |
| 249 | Influence of the strain on the formation of GaInAs/GaAs quantum structures. <i>Journal of Crystal Growth</i> , 2006 , 286, 6-10 | 1.6 | 42 |
| 248 | Digital Doping in Magic-Sized CdSe Clusters. <i>ACS Nano</i> , 2016 , 10, 7135-41 | 16.7 | 41 |
| 247 | Phonon Interaction and Phase Transition in Single Formamidinium Lead Bromide Quantum Dots. <i>Nano Letters</i> , 2018 , 18, 4440-4446 | 11.5 | 41 |
| 246 | Quantum Dot/Light-Emitting Electrochemical Cell Hybrid Device and Mechanism of Its Operation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24692-8 | 9.5 | 37 |
| 245 | All-inorganic light emitting device based on ZnO nanoparticles. <i>Applied Physics Letters</i> , 2009 , 94, 091115 | 3.4 | 37 |
| 244 | Room temperature emission from CdSe/ZnS/MgS single quantum dots. <i>Applied Physics Letters</i> , 2007 , 90, 101114 | 3.4 | 37 |
| 243 | Spin injection into a single self-assembled quantum dot. <i>Physical Review B</i> , 2004 , 69, | 3.3 | 36 |
| 242 | Fabrication and analysis of Cr-doped ZnO nanoparticles from the gas phase. <i>Nanotechnology</i> , 2009 , 20, 135604 | 3.4 | 35 |
| 241 | Polarization-dependent formation of biexcitons in (Zn,Cd)Se/ZnSe quantum wells. <i>Physical Review B</i> , 1997 , 55, 9866-9871 | 3.3 | 35 |
| 240 | First order distributed feedback operation in ZnSe based laser structures. <i>Applied Physics Letters</i> , 1995 , 67, 1-3 | 3.4 | 35 |
| 239 | Material and doping transitions in single GaAs-based nanowires probed by Kelvin probe force microscopy. <i>Nanotechnology</i> , 2009 , 20, 385702 | 3.4 | 34 |
| 238 | Coherent spin oscillations in bulk GaAs at room temperature. <i>Applied Physics Letters</i> , 2006 , 89, 231101 | 3.4 | 34 |
| 237 | Resonant micro-Raman investigations of the ZnSe π splitting in III-V semiconductor quantum wires. <i>Journal of Applied Physics</i> , 1997 , 81, 1446-1450 | 2.5 | 32 |
| 236 | Polarization dynamics in self-assembled CdSe/ZnSe quantum dots: The role of excess energy. <i>Physical Review B</i> , 2003 , 67, | 3.3 | 32 |
| 235 | Fine Structure of the Optical Absorption Resonance in Cs ₂ AgBiBr ₆ Double Perovskite Thin Films. <i>ACS Energy Letters</i> , 2020 , 5, 559-565 | 20.1 | 30 |
| 234 | Investigation of dark line defects induced by catastrophic optical damage in broad-area AlGaInP laser diodes. <i>Applied Physics Letters</i> , 2006 , 89, 101111 | 3.4 | 30 |
| 233 | Solution-Processed CuInS-Based White QD-LEDs with Mixed Active Layer Architecture. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11224-11230 | 9.5 | 29 |

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| 232 | sp-d Exchange Interactions in Wave Function Engineered Colloidal CdSe/Mn:CdS Hetero-Nanoplatelets. <i>Nano Letters</i> , 2018 , 18, 2047-2053 | 11.5 | 28 |
| 231 | Quantum confinement-controlled exchange coupling in manganese(II)-doped CdSe two-dimensional quantum well nanoribbons. <i>Nano Letters</i> , 2012 , 12, 5311-7 | 11.5 | 28 |
| 230 | Spatially resolved photoelectric performance of axial GaAs nanowire pn-diodes. <i>Nano Research</i> , 2011 , 4, 987-995 | 10 | 27 |
| 229 | Electrical investigation of V-defects in GaN using Kelvin probe and conductive atomic force microscopy. <i>Applied Physics Letters</i> , 2008 , 93, 022107 | 3.4 | 27 |
| 228 | Single-electron charging of a self-assembled III-V quantum dot. <i>Applied Physics Letters</i> , 2003 , 82, 3946-3948 | 3.4 | 27 |
| 227 | Size dependence of strain relaxation and lateral quantization in deep etched Cd _x Zn _{1-x} Se/ZnSe quantum wires. <i>Physical Review B</i> , 1998 , 57, 15439-15447 | 3.3 | 25 |
| 226 | Performance Enhancement by ZnO Nanoparticle Layer in Hybrid Ionic Transition Metal Complex-Light-Emitting Electrochemical Cells (ITMC-LECs). <i>Advanced Materials Technologies</i> , 2017 , 2, 1600215 | 6.8 | 24 |
| 225 | Magnetic imprinting of submicron ferromagnetic wires on a diluted magnetic semiconductor quantum well. <i>Applied Physics Letters</i> , 2004 , 84, 2826-2828 | 3.4 | 24 |
| 224 | Water-free synthesis of ZnO quantum dots for application as an electron injection layer in light-emitting electrochemical cells. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2344-2351 | 7.1 | 23 |
| 223 | Fabrication of CdZnSe/ZnSe quantum dots and quantum wires by electron beam lithography and wet chemical etching. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1995 , 13, 2792 | | 23 |
| 222 | Low Resistive Edge Contacts to CVD-Grown Graphene Using a CMOS Compatible Metal. <i>Annalen Der Physik</i> , 2017 , 529, 1600410 | 2.6 | 22 |
| 221 | Spin injection light-emitting diode with vertically magnetized ferromagnetic metal contacts. <i>Journal of Applied Physics</i> , 2006 , 99, 073907 | 2.5 | 22 |
| 220 | Exciton dephasing in ZnSe quantum wires. <i>Physical Review B</i> , 1998 , 57, 1797-1800 | 3.3 | 22 |
| 219 | Large-area MoS ₂ deposition via MOVPE. <i>Journal of Crystal Growth</i> , 2017 , 464, 100-104 | 1.6 | 21 |
| 218 | Resonance Raman spectroscopy on strain relaxed CdZnSe/ZnSe quantum wires. <i>Journal of Raman Spectroscopy</i> , 2000 , 31, 959-963 | 2.3 | 21 |
| 217 | Estimation of Sidewall Nonradiative Recombination in GaInAsP/InP Wire Structures Fabricated by Low Energy Electron-Cyclotron-Resonance Reactive-Ion-Beam-Etching. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 3576-3584 | 1.4 | 21 |
| 216 | Buried single CdTe/CdMnTe quantum dots realized by focused ion beam lithography. <i>Applied Physics Letters</i> , 1999 , 75, 956-958 | 3.4 | 21 |
| 215 | Exciton dynamics for extended monolayer islands in thin In _{0.53} Ga _{0.47} As/InP quantum wells. <i>Physical Review B</i> , 1992 , 45, 9136-9144 | 3.3 | 21 |

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| 214 | Spin-spin interaction in magnetic semiconductor quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005 , 26, 37-44 | 3 | 20 |
| 213 | Scalable Large-Area p-i-n Light-Emitting Diodes Based on WS ₂ Monolayers Grown via MOCVD. <i>ACS Photonics</i> , 2019 , 6, 1832-1839 | 6.3 | 19 |
| 212 | Electrically driven single quantum dot emitter operating at room temperature. <i>Applied Physics Letters</i> , 2008 , 93, 173506 | 3.4 | 19 |
| 211 | Temperature-power dependence of catastrophic optical damage in AlGaInP laser diodes. <i>Applied Physics Letters</i> , 2007 , 91, 041115 | 3.4 | 19 |
| 210 | Voltage drop in an (Al _x Ga _{1-x}) _{0.5} In _{0.5} P light-emitting diode probed by Kelvin probe force microscopy. <i>Applied Physics Letters</i> , 2006 , 89, 103522 | 3.4 | 19 |
| 209 | Be-induced island formation in CdSe/ZnSe heterostructures: Ensemble versus single dot studies. <i>Physical Review B</i> , 2000 , 62, 12609-12612 | 3.3 | 19 |
| 208 | Optical study of interdiffusion in CdTe and ZnSe based quantum wells. <i>Journal of Crystal Growth</i> , 1994 , 138, 362-366 | 1.6 | 19 |
| 207 | Green-yellow emitting hybrid light emitting electrochemical cell. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12062-12068 | 7.1 | 18 |
| 206 | p-Si/n-ZnO Nanocrystal Heterojunction Light Emitting Device. <i>Applied Physics Express</i> , 2012 , 5, 035001 | 2.4 | 18 |
| 205 | Spin injection into a single self-assembled quantum dot in a p-i-n II-VI/III-V structure. <i>Applied Physics Letters</i> , 2007 , 90, 093110 | 3.4 | 18 |
| 204 | Manipulating single quantum dot states in a lateral electric field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002 , 13, 147-150 | 3 | 18 |
| 203 | Be-enhanced CdSe island formation in CdSe/ZnSe heterostructures. <i>Journal of Applied Physics</i> , 2000 , 88, 7051-7055 | 2.5 | 18 |
| 202 | Design and Realization of White Quantum Dot Light-Emitting Electrochemical Cell Hybrid Devices. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42637-42646 | 9.5 | 18 |
| 201 | Improved luminescence properties of MoS ₂ monolayers grown via MOCVD: role of pre-treatment and growth parameters. <i>Nanotechnology</i> , 2018 , 29, 295704 | 3.4 | 17 |
| 200 | Metalorganic Vapor-Phase Epitaxy Growth Parameters for Two-Dimensional MoS ₂ . <i>Journal of Electronic Materials</i> , 2018 , 47, 910-916 | 1.9 | 17 |
| 199 | Current-Induced Magnetic Polarons in a Colloidal Quantum-Dot Device. <i>Nano Letters</i> , 2017 , 17, 4768-4773 | 11.5 | 17 |
| 198 | Gate control of carrier distribution in k-space in MoS ₂ monolayer and bilayer crystals. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 17 |
| 197 | Biexciton formation in Cd _x Zn _{1-x} Se/ZnSe quantum-dot and quantum-well structures. <i>Physical Review B</i> , 1997 , 56, 15261-15263 | 3.3 | 17 |

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| 196 | Valence-band mixing effects in the upper-excited-state magneto-optical responses of colloidal Mn ²⁺ -doped CdSe quantum dots. <i>ACS Nano</i> , 2014 , 8, 12669-75 | 16.7 | 16 |
| 195 | Biexciton binding energy and exciton-phonon scattering in ZnSe quantum wires. <i>Physical Review B</i> , 2001 , 63, | 3.3 | 16 |
| 194 | Quasiphasematched second harmonic generation in ZnSe waveguide structures modulated by focused ion beam implantation. <i>Applied Physics Letters</i> , 1998 , 73, 584-586 | 3.4 | 16 |
| 193 | Recombination and thermal emission of excitons in shallow CdTe/Cd _{1-x} MgxTe quantum wells. <i>Physical Review B</i> , 1996 , 53, 4544-4548 | 3.3 | 16 |
| 192 | Well width dependence of the carrier life time in InGaAs/InP quantum wells. <i>Superlattices and Microstructures</i> , 1989 , 5, 227-230 | 2.8 | 16 |
| 191 | On the origin of contact resistances in graphene devices fabricated by optical lithography. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1 | 2.6 | 15 |
| 190 | Recombination dynamics in ZnO nanoparticles produced by chemical vapor synthesis. <i>Journal of Applied Physics</i> , 2007 , 102, 023524 | 2.5 | 15 |
| 189 | Coherent dynamics of locally interacting spins in self-assembled Cd _{1-x} MnxSe _z znSe quantum dots. <i>Physical Review B</i> , 2006 , 73, | 3.3 | 15 |
| 188 | Local spin manipulation in ferromagnet-semiconductor hybrids. <i>Applied Physics Letters</i> , 2007 , 90, 051916 | 3.4 | 15 |
| 187 | Tunneling of zero-dimensional excitons in a single pair of correlated quantum dots. <i>Physical Review B</i> , 2001 , 64, | 3.3 | 15 |
| 186 | Realization of Red Iridium-Based Ionic Transition Metal Complex Light-Emitting Electrochemical Cells (iTMC-LECs) by Interface-Induced Color Shift. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22612-22620 | 9.5 | 14 |
| 185 | ZnSe-Based Laser Diodes and LEDs Grown on ZnSe and GaAs Substrates. <i>Physica Status Solidi (B): Basic Research</i> , 1997 , 202, 683-693 | 1.3 | 14 |
| 184 | Localization of excitons in ultrathin CdS/ZnS quantum structures. <i>Journal of Crystal Growth</i> , 1998 , 184-185, 320-324 | 1.6 | 14 |
| 183 | Optical confinement in CdTe-based photonic dots. <i>Applied Physics Letters</i> , 2002 , 80, 1322-1324 | 3.4 | 14 |
| 182 | Deep Etched ZnSe-Based Nanostructures for Future Optoelectronic Applications. <i>Physica Status Solidi (B): Basic Research</i> , 1995 , 187, 371-377 | 1.3 | 14 |
| 181 | Electron capture processes in optically excited In _{0.53} Ga _{0.47} As/InP quantum wells. <i>Applied Physics Letters</i> , 1989 , 55, 933-935 | 3.4 | 14 |
| 180 | A light-emitting electrochemical cell (LEC) containing a hole-blocking layer of TmPyPB. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 9742-9748 | 7.1 | 14 |
| 179 | Selective thermal interdiffusion using patterned SiO ₂ masks: An alternative approach to buried CdTe/CdMgTe quantum wires. <i>Applied Physics Letters</i> , 2001 , 78, 2937-2939 | 3.4 | 13 |

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| 178 | . <i>IEEE Photonics Technology Letters</i> , 2000 , 12, 236-238 | 2.2 | 13 |
| 177 | Recombination dynamics in single GaAs-nanowires with an axial heterojunction: n- versus p-doped areas. <i>Journal of Applied Physics</i> , 2013 , 113, 174303 | 2.5 | 12 |
| 176 | Electrical charging of a single quantum dot by a spin polarized electron. <i>Applied Physics Letters</i> , 2008 , 93, 073107 | 3.4 | 12 |
| 175 | Nonlinear emission in III-V pillar microcavities: Strong versus weak coupling. <i>Applied Physics Letters</i> , 2004 , 84, 1435-1437 | 3.4 | 12 |
| 174 | Raman investigation of Cd _x Zn _{1-x} Se/ZnSe quantum wires: length dependence of the strain relaxation. <i>Journal of Crystal Growth</i> , 2000 , 214-215, 787-791 | 1.6 | 12 |
| 173 | First order gain and index coupled distributed feedback lasers in ZnSe-based structures with finely tunable emission wavelengths. <i>Applied Physics Letters</i> , 1996 , 68, 599-601 | 3.4 | 12 |
| 172 | Thermal stability of (Zn,Cd)(Se,S) heterostructures grown on GaAs. <i>Journal of Applied Physics</i> , 1996 , 79, 4368 | 2.5 | 12 |
| 171 | Co-Doping of Magic-Sized CdSe Clusters: Structural Insights via Ligand Field Transitions. <i>Nano Letters</i> , 2018 , 18, 7350-7357 | 11.5 | 12 |
| 170 | WS monolayer-based light-emitting devices in a vertical p-n architecture. <i>Nanoscale</i> , 2019 , 11, 8372-8379 | 7.7 | 11 |
| 169 | Low-Temperature MOCVD of Crystalline Ga ₂ O ₃ Nanowires using tBu ₃ Ga. <i>Chemical Vapor Deposition</i> , 2013 , 19, 347-354 | | 11 |
| 168 | Dynamic nuclear spin resonance in n-GaAs. <i>Physical Review Letters</i> , 2011 , 107, 167601 | 7.4 | 11 |
| 167 | Wire-width dependence of the LO-phonon splitting and photoluminescence energy in ZnSe/Cd _{0.35} Zn _{0.65} Se quantum wires. <i>Physical Review B</i> , 1997 , 56, 7469-7476 | 3.3 | 11 |
| 166 | Recombination dynamics in dry-etched (Cd,Zn)Se/ZnSe nanostructures: Influence of exciton localization. <i>Physical Review B</i> , 1999 , 59, 2888-2893 | 3.3 | 11 |
| 165 | Photoluminescence efficiency study of wet chemically etched CdTe/Cd _{1-x} Mg _x Te wires. <i>Applied Physics Letters</i> , 1995 , 66, 1815-1817 | 3.4 | 11 |
| 164 | Correlation between the exciton mobility and the excitonic linewidth in shallow In _x Ga _{1-x} As/GaAs quantum wells. <i>Applied Physics Letters</i> , 1992 , 61, 702-704 | 3.4 | 11 |
| 163 | Carrier transfer across a 2D-3D semiconductor heterointerface: The role of momentum mismatch. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 10 |
| 162 | Influence of Capping Conditions on CdSe/ZnSe Quantum Dot Formation. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 229, 497-501 | 1.3 | 10 |
| 161 | Photoluminescence spectroscopy on single CdSe quantum dots in a semimagnetic ZnMnSe matrix. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002 , 13, 512-515 | 3 | 10 |

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| 160 | In situ lateral growth control of optically efficient quantum structures. <i>Applied Physics Letters</i> , 2003 , 83, 446-448 | 3.4 | 10 |
| 159 | Flexible Large-Area Light-Emitting Devices Based on WS ₂ Monolayers. <i>Advanced Optical Materials</i> , 2020 , 8, 2000694 | 8.1 | 10 |
| 158 | Proof of Equivalent Catalytic Functionality upon Photon-Induced and Thermal Activation of Supported Isolated Vanadia Species in Methanol Oxidation. <i>ChemCatChem</i> , 2018 , 10, 2360-2364 | 5.2 | 9 |
| 157 | Relaxation of hot excitons in inhomogeneously broadened Cd _x Zn _{1-x} Se/ZnSe nanostructures. <i>Physical Review B</i> , 1997 , 56, 6868-6870 | 3.3 | 9 |
| 156 | Local control of spin polarization in a semiconductor by microscale current loops. <i>Applied Physics Letters</i> , 2008 , 93, 141902 | 3.4 | 9 |
| 155 | Precession of localized spins in an inhomogeneous magnetic fringe field. <i>Physical Review B</i> , 2008 , 77, | 3.3 | 9 |
| 154 | Optical Spectroscopy on Non-Magnetic and Semimagnetic Single Quantum Dots in External Fields. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 229, 415-422 | 1.3 | 9 |
| 153 | Excitation Spectroscopy on Single Quantum Dots and Single Pairs of Quantum Dots. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 229, 503-507 | 1.3 | 9 |
| 152 | Controlled self-assembly of semiconductor quantum dots using shadow masks. <i>Applied Physics Letters</i> , 2003 , 82, 4349-4351 | 3.4 | 9 |
| 151 | Modulated energy relaxation of photoexcited carriers into the excitonic ground state in shallow quantum wells. <i>Solid State Communications</i> , 1995 , 95, 15-19 | 1.6 | 9 |
| 150 | Room temperature emission in narrow (14 nm) quantum wires with strong lateral confinement effects. <i>Journal of Crystal Growth</i> , 1996 , 159, 455-458 | 1.6 | 9 |
| 149 | Fabrication and optical characterization of wet chemically etched CdTe/CdMgTe wires. <i>Journal of Crystal Growth</i> , 1994 , 138, 638-642 | 1.6 | 9 |
| 148 | Optical Study of Intermixing in CdTe/CdMgTe Quantum Wells. <i>Japanese Journal of Applied Physics</i> , 1994 , 33, L247-L249 | 1.4 | 9 |
| 147 | Magnetic Polaron Formation Dynamics in Mn ²⁺ -Doped Colloidal Nanocrystals up to Room Temperature. <i>Journal of the Korean Physical Society</i> , 2011 , 58, 1261-1266 | 0.6 | 9 |
| 146 | Photocatalytic Methanol Oxidation by Supported Vanadium Oxide Species: Influence of Support and Degree of Oligomerization. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 3725-3735 | 2.3 | 8 |
| 145 | Manipulation of spin states in a semiconductor by microscale magnets. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 164007 | 3 | 8 |
| 144 | Biexciton Binding Energy in ZnSe Quantum Wells and Quantum Wires. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 231, 11-18 | 1.3 | 8 |
| 143 | Optical Spectroscopy on One and Two Exciton States in ZnSe-Based Single Quantum Dots. <i>Physica Status Solidi A</i> , 2000 , 178, 323-326 | | 8 |

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| 142 | Phonon interaction of single excitons in CdSe/ZnSe quantum dot structures. <i>Journal of Luminescence</i> , 1999 , 83-84, 305-308 | 3.8 | 8 |
| 141 | Excitonic lifetimes in (Zn,Cd)Se/ZnSe and ZnSe/Zn(Se,S) quantum wires. <i>Physical Review B</i> , 1996 , 53, R4233-R4236 | | |
| 140 | Stimulated emission from a (CdMg)Te separate confinement quantum well laser. <i>Journal of Applied Physics</i> , 1994 , 75, 5456-5458 | 2.5 | 8 |
| 139 | ZnSe-based DBR-laser diode. <i>Electronics Letters</i> , 1995 , 31, 2184-2185 | 1.1 | 8 |
| 138 | Directed Exciton Magnetic Polaron Formation in a Single Colloidal Mn:CdSe/CdS Quantum Dot. <i>Nano Letters</i> , 2020 , 20, 1896-1906 | 11.5 | 8 |
| 137 | Subnanosecond magnetization dynamics induced by a pulsed magnetic field in diluted magnetic semiconductor quantum wells. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 7 |
| 136 | Tunable quantum coupling in a II-VI quantum dot molecule. <i>Journal of Applied Physics</i> , 2008 , 103, 113520.5 | 2.5 | 7 |
| 135 | Anisotropic Polarization Properties of Photoluminescence from GaInAsP/InP Quantum-Wire Structures Fabricated by Two-Step Organometallic Vapor Phase Epitaxy Growth. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, L46-L49 | 1.4 | 7 |
| 134 | H2S-free Metal-Organic Vapor Phase Epitaxy of Coalesced 2D WS2 Layers on Sapphire. <i>MRS Advances</i> , 2019 , 4, 593-599 | 0.7 | 7 |
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