# Wolfgang HeiÃ

List of Publications by Year
in descending order

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| | | 47409 | 36203 |
|---|---|---|---|
| 229 | 11,261 | 49 | 101 |
| papers | citations | h-index | g-index |

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|---|---|---|---|
| 230 | 230 | 230 | 16525 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Highly Stable Lasing from Solutionâ€Epitaxially Grown Formamidiniumâ€Leadâ€Bromide Microâ€Resonators. Advanced Optical Materials, 2022, 10, . | 3.6 | 3 |
| 2 | Selfâ€Healing Cs<sub>3</sub>Bi<sub>2</sub>Br<sub>3</sub>I<sub>6</sub> Perovskite Wafers for Xâ€Ray Detection. Advanced Functional Materials, 2021, 31, 2102713. | 7.8 | 29 |
| 3 | High-sensitivity high-resolution X-ray imaging with soft-sintered metal halide perovskites. Nature Electronics, 2021, 4, 681-688. | 13.1 | 149 |
| 4 | The Fine-Structure Constant as a Ruler for the Band-Edge Light Absorption Strength of Bulk and Quantum-Confined Semiconductors. Nano Letters, 2021, 21, 9426-9432. | 4.5 | 1 |
| 5 | Perspectives of solution epitaxially grown defect tolerant lead-halide-perovskites and lead-chalcogenides. Applied Physics Letters, 2021, 119, . | 1.5 | 2 |
| 6 | Exfoliated CrPS 4 with Promising Photoconductivity. Small, 2020, 16, 1905924. | 5.2 | 26 |
| 7 | Graphene Oxide Thin Films: Synthesis and Optical Characterization. ChemistrySelect, 2020, 5, 11737-11744. | 0.7 | 15 |
| 8 | Epitaxial Metal Halide Perovskites by Inkjetâ€Printing on Various Substrates. Advanced Functional Materials, 2020, 30, 2004612. | 7.8 | 21 |
| 9 | Micron Thick Colloidal Quantum Dot Solids. Nano Letters, 2020, 20, 5284-5291. | 4.5 | 47 |
| 10 | Sensitive Direct Converting Xâ€Ray Detectors Utilizing Crystalline CsPbBr<sub>3</sub> Perovskite Films Fabricated via Scalable Melt Processing. Advanced Materials Interfaces, 2020, 7, 1901575. | 1.9 | 83 |
| 11 | Effect of Ligand Treatment on the Tuning of Infrared Plasmonic Indium Tin Oxide Nanocrystal Electrochromic Devices. Advanced Engineering Materials, 2020, 22, 2000112. | 1.6 | 15 |
| 12 | Looking beyond the Surface: The Band Gap of Bulk Methylammonium Lead Iodide. Nano Letters, 2020, 20, 3090-3097. | 4.5 | 16 |
| 13 | A perspective on the bright future of metal halide perovskites for X-ray detection. Applied Physics Letters, 2019, 115, . | 1.5 | 45 |
| 14 | Fully Printed Infrared Photodetectors from PbS Nanocrystals with Perovskite Ligands. ACS Nano, 2019, 13, 2389-2397. | 7.3 | 30 |
| 15 | Pushing PbS/Metalâ€Halideâ€Perovskite Core/Epitaxialâ€Ligandâ€Shell Nanocrystal Photodetectors beyond 3 Âµm Wavelength. Advanced Functional Materials, 2019, 29, 1807964. | 7.8 | 35 |
| 16 | Photophysical and electronic properties of bismuth-perovskite shelled lead sulfide quantum dots. Journal of Chemical Physics, 2019, 151, 214702. | 1.2 | 1 |
| 17 | Interplay between crystal structure, shape and functionality of colloidal nanocrystals and supercrystals. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, e657-e657. | 0.0 | 0 |
| 18 | General Observation of Photocatalytic Oxygen Reduction to Hydrogen Peroxide by Organic Semiconductor Thin Films and Colloidal Crystals. ACS Applied Materials & Interfaces, 2018, 10, 13253-13257. | 4.0 | 37 |

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| 19 | Revealing Trap States in Lead Sulphide Colloidal Quantum Dots by Photoinduced Absorption Spectroscopy. Advanced Electronic Materials, 2018, 4, 1700348. | 2.6 | 25 |
| 20 | A Shapeâ€Induced Orientation Phase within 3D Nanocrystal Solids. Advanced Materials, 2018, 30, e1802078. | 11.1 | 7 |
| 21 | Broadening of Distribution of Trap States in PbS Quantum Dot Field-Effect Transistors with High-k Dielectrics. ACS Applied Materials & Interfaces, 2017, 9, 4719-4724. | 4.0 | 20 |
| 22 | Quasi-epitaxial Metal-Halide Perovskite Ligand Shells on PbS Nanocrystals. ACS Nano, 2017, 11, 1246-1256. | 7.3 | 74 |
| 23 | Enabling Ambipolar to Heavy n-Type Transport in PbS Quantum Dot Solids through Doping with Organic Molecules. ACS Applied Materials & Interfaces, 2017, 9, 18039-18045. | 4.0 | 34 |
| 24 | High-performance direct conversion X-ray detectors based on sintered hybrid lead triiodide perovskite wafers. Nature Photonics, 2017, 11, 436-440. | 15.6 | 442 |
| 25 | Strainâ€Modulated Charge Transport in Flexible PbS Nanocrystal Fieldâ€Effect Transistors. Advanced Electronic Materials, 2017, 3, 1600360. | 2.6 | 20 |
| 26 | Cellular interfaces with hydrogen-bonded organic semiconductor hierarchical nanocrystals. Nature Communications, 2017, 8, 91. | 5.8 | 51 |
| 27 | Morphology-Controlled Organic Solar Cells Improved by a Nanohybrid System of Single Wall Carbon Nanotubes Sensitized by PbS Core/Perovskite Epitaxial Ligand Shell Quantum Dots. Solar Rrl, 2017, 1, 1700043. | 3.1 | 7 |
| 28 | Carbon Photodetectors: The Versatility of Carbon Allotropes. Advanced Energy Materials, 2017, 7, 1601574. | 10.2 | 44 |
| 29 | Hydrogenâ€Bonded Organic Semiconductors as Stable Photoelectrocatalysts for Efficient Hydrogen Peroxide Photosynthesis. Advanced Functional Materials, 2016, 26, 5248-5254. | 7.8 | 115 |
| 30 | Tunable doping in PbS nanocrystal field-effect transistors using surface molecular dipoles. APL Materials, 2016, 4, 116105. | 2.2 | 10 |
| 31 | Perovskites target X-ray detection. Nature Photonics, 2016, 10, 288-289. | 15.6 | 112 |
| 32 | Photocatalysis: Hydrogen-Bonded Organic Semiconductors as Stable Photoelectrocatalysts for Efficient Hydrogen Peroxide Photosynthesis (Adv. Funct. Mater. 29/2016). Advanced Functional Materials, 2016, 26, 5247-5247. | 7.8 | 1 |
| 33 | Galvanic Exchange in Colloidal Metal/Metal-Oxide Core/Shell Nanocrystals. Journal of Physical Chemistry C, 2016, 120, 19848-19855. | 1.5 | 9 |
| 34 | Detection of X-ray photons by solution-processed lead halide perovskites. Nature Photonics, 2015, 9, 444-449. | 15.6 | 916 |
| 35 | Iodideâ€Capped PbS Quantum Dots: Full Optical Characterization of a Versatile Absorber. Advanced Materials, 2015, 27, 1533-1539. | 11.1 | 14 |
| 36 | Prospects of Nanoscience with Nanocrystals. ACS Nano, 2015, 9, 1012-1057. | 7.3 | 1,005 |

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| 37 | High Mobility and Low Density of Trap States in Dualâ€Solidâ€Gated PbS Nanocrystal Fieldâ€Effect Transistors. Advanced Materials, 2015, 27, 2107-2112. | 11.1 | 55 |
| 38 | Enhanced near-infrared response of nano- and microstructured silicon/organic hybrid photodetectors. Applied Physics Letters, 2015, 107, . | 1.5 | 16 |
| 39 | Low-threshold amplified spontaneous emission and lasing from colloidal nanocrystals of caesium lead halide perovskites. Nature Communications, 2015, 6, 8056. | 5.8 | 1,278 |
| 40 | Random Lasing with Systematic Threshold Behavior in Films of CdSe/CdS Core/Thick-Shell Colloidal Quantum Dots. ACS Nano, 2015, 9, 9792-9801. | 7.3 | 49 |
| 41 | Charge transport in nanoparticular thin films of zinc oxide and aluminum-doped zinc oxide. Journal of Materials Chemistry C, 2015, 3, 1468-1472. | 2.7 | 10 |
| 42 | High Infrared Photoconductivity in Films of Arsenic-Sulfide-Encapsulated Lead-Sulfide Nanocrystals. ACS Nano, 2014, 8, 12883-12894. | 7.3 | 62 |
| 43 | Crystal Phase Transitions in the Shell of PbS/CdS Core/Shell Nanocrystals Influences Photoluminescence Intensity. Chemistry of Materials, 2014, 26, 5914-5922. | 3.2 | 44 |
| 44 | Reducing charge trapping in PbS colloidal quantum dot solids. Applied Physics Letters, 2014, 104, . | 1.5 | 65 |
| 45 | The potential of Rutherford Backscattering Spectrometry for composition analysis of colloidal nanocrystals. Nuclear Instruments & Methods in Physics Research B, 2014, 332, 122-125. | 0.6 | 2 |
| 46 | Tuning the Localized Surface Plasmon Resonance in Cu<sub>2â€“x</sub>Se Nanocrystals by Postsynthetic Ligand Exchange. ACS Applied Materials & Interfaces, 2014, 6, 17770-17775. | 4.0 | 68 |
| 47 | Polarization control of metal-enhanced fluorescence in hybrid assemblies of photosynthetic complexes and gold nanorods. Physical Chemistry Chemical Physics, 2014, 16, 9015. | 1.3 | 15 |
| 48 | Hydrogen-Bonded Organic Semiconductor Micro- And Nanocrystals: From Colloidal Syntheses to (Opto-)Electronic Devices. Journal of the American Chemical Society, 2014, 136, 16522-16532. | 6.6 | 75 |
| 49 | Determination of the Electronic Energy Levels of Colloidal Nanocrystals using Fieldâ€Effect Transistors and Abâ€Initio Calculations. Advanced Materials, 2014, 26, 5639-5645. | 11.1 | 33 |
| 50 | Structural Profiles of Nanocrystals from ASAXS and Crystallographic Techniques. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C1583-C1583. | 0.0 | 0 |
| 51 | Photovoltaic properties of thin film heterojunctions with cupric oxide absorber. Journal of Renewable and Sustainable Energy, 2013, 5, . | 0.8 | 58 |
| 52 | Highly Luminescent, Size- and Shape-Tunable Copper Indium Selenide Based Colloidal Nanocrystals. Chemistry of Materials, 2013, 25, 3753-3757. | 3.2 | 113 |
| 53 | Sizeâ€Dependent Charge Transfer in Blends of PbS Quantum Dots with a Lowâ€Gap Siliconâ€Bridged Copolymer. Advanced Energy Materials, 2013, 3, 1490-1499. | 10.2 | 29 |
| 54 | Concentration and excitation effects on the exciton dynamics of poly(3-hexylthiophene)/PbS quantum dot blend films. Nanotechnology, 2013, 24, 235707. | 1.3 | 4 |

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| 55 | Tuning the Magnetic Properties of Metal Oxide Nanocrystal Heterostructures by Cation Exchange. Nano Letters, 2013, 13, 586-593. | 4.5 | 91 |
| 56 | Low Driving Voltage and High Mobility Ambipolar Fieldâ€Effect Transistors with PbS Colloidal Nanocrystals. Advanced Materials, 2013, 25, 4309-4314. | 11.1 | 107 |
| 57 | Short-wave infrared colloidal quantum dot photodetectors on silicon. Proceedings of SPIE, 2013, , . | 0.8 | 7 |
| 58 | Charge separation dynamics in a narrow band gap polymerâ€“PbS nanocrystal blend for efficient hybrid solar cells. Journal of Materials Chemistry, 2012, 22, 24411. | 6.7 | 48 |
| 59 | Plasmon-enhanced fluorescence in heterochlorophyllous peridinin-chlorophyll-protein photosynthetic complex. Optical Materials, 2012, 34, 2076-2079. | 1.7 | 6 |
| 60 | Carbon nanotube growth from Langmuirâ€“Blodgett deposited Fe3O4nanocrystals. Nanotechnology, 2012, 23, 405604. | 1.3 | 6 |
| 61 | High precision positioning of plasmonic nanoparticle based on damascene process. , 2012, , . | | 0 |
| 62 | From Highly Monodisperse Indium and Indium Tin Colloidal Nanocrystals to Self-Assembled Indium Tin Oxide Nanoelectrodes. ACS Nano, 2012, 6, 4113-4121. | 7.3 | 48 |
| 63 | Exploring the Origin of the Temperatureâ€Dependent Behavior of PbS Nanocrystal Thin Films and Solar Cells. Advanced Functional Materials, 2012, 22, 1598-1605. | 7.8 | 71 |
| 64 | Spectral Dependence of Fluorescence Enhancement in LH2-Au Nanoparticle Hybrid Nanostructures. Acta Physica Polonica A, 2012, 122, 252-254. | 0.2 | 4 |
| 65 | Fluorescence Mapping of PCP Light-Harvesting Complexes Coupled to Silver Nanowires. Acta Physica Polonica A, 2012, 122, 259-262. | 0.2 | 3 |
| 66 | Fluorescence Microscopy of Corrole-Single Silver Nanowire Hybrid Nanostructures. Acta Physica Polonica A, 2012, 122, 333-336. | 0.2 | 2 |
| 67 | Evaluation of Ordering in Single-Component and Binary Nanocrystal Superlattices by Analysis of Their Autocorrelation Functions. ACS Nano, 2011, 5, 1703-1712. | 7.3 | 30 |
| 68 | Infrared Emitting and Photoconducting Colloidal Silver Chalcogenide Nanocrystal Quantum Dots from a Silylamide-Promoted Synthesis. ACS Nano, 2011, 5, 3758-3765. | 7.3 | 164 |
| 69 | Substantial Temperature Dependence of Transverse Electron gâ^—-factor in Lead Chalcogenide Multi-quantum Wells. AIP Conference Proceedings, 2011, , . | 0.3 | 0 |
| 70 | Quasistatic Dielectric Constants Of Colloidal Nanocrystals. , 2011, , . | | 0 |
| 71 | Temperature dependent photoresponse from colloidal PbS quantum dot sensitized inorganic/organic hybrid photodiodes. Applied Physics Letters, 2011, 98, . | 1.5 | 18 |
| 72 | Mapping the Local Photoresponse of Epitaxial and Colloidal Quantum Dots by Photoconductive Atomic Force Microscopy. , 2011, , . | | 0 |

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| 73 | AFMâ€based photocurrent imaging of epitaxial and colloidal QDs. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 426-428. | 0.8 | 1 |
| 74 | Chargeâ€Separation Dynamics in Inorganicâ€“Organic Ternary Blends for Efficient Infrared Photodiodes. Advanced Functional Materials, 2011, 21, 1988-1992. | 7.8 | 61 |
| 75 | Optical Properties of Organic Semiconductor Blends with Nearâ€Infrared Quantumâ€Dot Sensitizers for Light Harvesting Applications. Advanced Energy Materials, 2011, 1, 802-812. | 10.2 | 88 |
| 76 | Growth and characterization of mid-infrared microdisk lasers operating in continuous-wave mode up to 2Â°C. Journal of Crystal Growth, 2011, 323, 460-462. | 0.7 | 3 |
| 77 | Fluorescence enhancement of light-harvesting complex 2 from purple bacteria coupled to spherical gold nanoparticles. Applied Physics Letters, 2011, 99, . | 1.5 | 46 |
| 78 | Midinfrared electroluminescence from PbTe/CdTe quantum dot light-emitting diodes. Applied Physics Letters, 2011, 98, . | 1.5 | 36 |
| 79 | Scanning microwave microscopy and scanning capacitance microscopy on colloidal nanocrystals. Journal of Applied Physics, 2011, 109, 064313. | 1.1 | 9 |
| 80 | Variable wavelength photocurrent mapping on PbS quantum dot: fullerene thin films by conductive atomic force microscopy. Semiconductor Science and Technology, 2011, 26, 095002. | 1.0 | 3 |
| 81 | Size-Dependent Electron Transfer from Colloidal PbS Nanocrystals to Fullerene. Journal of Physical Chemistry Letters, 2010, 1, 1149-1154. | 2.1 | 54 |
| 82 | Damascene Process for Controlled Positioning of Magnetic Colloidal Nanocrystals. Advanced Materials, 2010, 22, 1364-1368. | 11.1 | 8 |
| 83 | Publisher's Note: Magnetic polarons in Eu-based films of magnetic semiconductors [Phys. Rev. B81, 153201 (2010)]. Physical Review B, 2010, 81, . | 1.1 | 0 |
| 84 | Enhanced color conversion from colloidal CdSe/CdS dot/rods by vertical microcavities. Applied Physics Letters, 2010, 97, 111115. | 1.5 | 7 |
| 85 | Magnetic polarons in Eu-based films of magnetic semiconductors. Physical Review B, 2010, 81, . | 1.1 | 24 |
| 86 | Energetic and Entropic Contributions to Self-Assembly of Binary Nanocrystal Superlattices: Temperature as the Structure-Directing Factor. Journal of the American Chemical Society, 2010, 132, 11967-11977. | 6.6 | 210 |
| 87 | PbS nanocrystal solar cells with high efficiency and fill factor. Applied Physics Letters, 2010, 97, . | 1.5 | 108 |
| 88 | Large-Area Ordered Superlattices from Magnetic WÃ¼stite/Cobalt Ferrite Core/Shell Nanocrystals by Doctor Blade Casting. ACS Nano, 2010, 4, 423-431. | 7.3 | 83 |
| 89 | Near room temperature continuous-wave laser operation from type-I interband transitions at wavelengths beyond 4â€‚Î¼m. Applied Physics Letters, 2010, 97, 061103. | 1.5 | 26 |
| 90 | Highly Monodisperse Bismuth Nanoparticles and Their Three-Dimensional Superlattices. Journal of the American Chemical Society, 2010, 132, 15158-15159. | 6.6 | 91 |

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| 91 | Langmuirâ”Schaefer Deposition of Quantum Dot Multilayers. Langmuir, 2010, 26, 7732-7736. | 1.6 | 54 |
| 92 | Exchange interactions in europium monochalcogenide magnetic semiconductors and their dependence on hydrostatic strain. Physical Review B, 2010, 81, . | 1.1 | 47 |
| 93 | Surface modification of semiconductor nanocrystals by a methanofullerene carboxylic acid. Journal of Materials Chemistry, 2010, 20, 8470. | 6.7 | 11 |
| 94 | Lead salt microdisk lasers operating in continuous wave mode at 5.3â€‚Î¼m wavelength. Applied Physics Letters, 2009, 94, 021118. | 1.5 | 17 |
| 95 | Enhanced infrared emission from colloidal HgTe nanocrystal quantum dots on silicon-on-insulator photonic crystals. Applied Physics Letters, 2009, 95, 053107. | 1.5 | 7 |
| 96 | Coherent {001} interfaces between rocksalt and zinc-blende crystal structures. Physical Review B, 2009, 79, . | 1.1 | 21 |
| 97 | Para-sexiphenyl-CdSe/ZnS nanocrystal hybrid light emitting diodes. Applied Physics Letters, 2009, 94, . | 1.5 | 19 |
| 98 | PbTe and SnTe quantum dot precipitates in a CdTe matrix fabricated by ion implantation. Journal of Applied Physics, 2009, 106, . | 1.1 | 8 |
| 99 | Para-sexiphenyl-CdSe Nanocrystals Hybrid Light Emitting Diodes with Optimized Layer Thickness and Interfaces. Materials Research Society Symposia Proceedings, 2009, 1154, 1. | 0.1 | 0 |
| 100 | Solutionâ€Processable Nearâ€IR Photodetectors Based on Electron Transfer from PbS Nanocrystals to Fullerene Derivatives. Advanced Materials, 2009, 21, 683-687. | 11.1 | 121 |
| 101 | Excitonâ€“Exciton Interaction and Optical Gain in Colloidal CdSe/CdS Dot/Rod Nanocrystals. Advanced Materials, 2009, 21, 4942-4946. | 11.1 | 82 |
| 102 | Exchangeâ€Coupled Bimagnetic WÃ¼stite/Metal Ferrite Core/Shell Nanocrystals: Size, Shape, and Compositional Control. Small, 2009, 5, 2247-2252. | 5.2 | 78 |
| 103 | Near-infrared imaging with quantum-dot-sensitized organic photodiodes. Nature Photonics, 2009, 3, 332-336. | 15.6 | 598 |
| 104 | Quasiâ€Seeded Growth of Ligandâ€Tailored PbSe Nanocrystals through Cationâ€Exchangeâ€Mediated Nucleation. Angewandte Chemie - International Edition, 2008, 47, 3029-3033. | 7.2 | 103 |
| 105 | Gold/Iron Oxide Core/Hollowâ€Shell Nanoparticles. Advanced Materials, 2008, 20, 4323-4329. | 11.1 | 308 |
| 106 | Highly efficient (infra)red conversion of InGaN light emitting diodes by nanocrystals, enhanced by colour selective mirrors. Nanotechnology, 2008, 19, 355205. | 1.3 | 2 |
| 107 | Size-controlled quantum dots fabricated by precipitation of epitaxially grown, immiscible semiconductor heterosystems. Journal of Physics Condensed Matter, 2008, 20, 454216. | 0.7 | 4 |
| 108 | Temperature-dependent midinfrared photoluminescence of epitaxial PbTe/CdTe quantum dots and calculation of the corresponding transition energy. Physical Review B, 2008, 78, . | 1.1 | 50 |

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| 109 | Energy transfer in close-packed PbS nanocrystal films. Physical Review B, 2008, 77, . | 1.1 | 49 |
| 110 | Tuning spin properties of excitons in single CdTe quantum dots by annealing. Nanotechnology, 2008, 19, 125706. | 1.3 | 5 |
| 111 | Antiferromagnetic Order with Atomic Layer Resolution In EuTe(111) Films. Physical Review Letters, 2008, 101, 267202. | 2.9 | 19 |
| 112 | Quantum dot nanocolumn photodetectors for light detection in the infrared. Applied Physics Letters, 2008, 92, 261113. | 1.5 | 15 |
| 113 | Preparation of catalytic nano-particles and growth of aligned CNTs with HF-CVD. Journal of Physics: Conference Series, 2008, 100, 052092. | 0.3 | 1 |
| 114 | Highly efficient (infra)-red-conversion of InGaN light emitting diodes by nanocrystals, enhanced by color selective mirrors. Proceedings of SPIE, 2008, , . | 0.8 | 0 |
| 115 | Mid-infrared vertical-cavity surface-emitting lasers based on lead salt/BaF 2 Bragg mirrors. Proceedings of SPIE, 2008, , . | 0.8 | 0 |
| 116 | Monte Carlo Simulation of Electron Transport in PbTe. Springer Proceedings in Physics, 2008, , 77-79. | 0.1 | 0 |
| 117 | Size control and midinfrared emission of epitaxial PbTeâ^•CdTe quantum dot precipitates grown by molecular beam epitaxy. Applied Physics Letters, 2007, 91, 222106. | 1.5 | 57 |
| 118 | Quantum dots with coherent interfaces between rocksalt-PbTe and zincblende-CdTe. Journal of Applied Physics, 2007, 101, 081723. | 1.1 | 28 |
| 119 | Mid-infrared high finesse microcavities and vertical-cavity lasers based on IVâ€“VI semiconductor/BaF2 broadband Bragg mirrors. Journal of Applied Physics, 2007, 101, 093102. | 1.1 | 17 |
| 120 | Fatty Acid Salts as Stabilizers in Size- and Shape-Controlled Nanocrystal Synthesis:â€‰ The Case of Inverse Spinel Iron Oxide. Journal of the American Chemical Society, 2007, 129, 6352-6353. | 6.6 | 380 |
| 121 | SnTe Nanocrystals:â€‰ A New Example of Narrow-Gap Semiconductor Quantum Dots. Journal of the American Chemical Society, 2007, 129, 11354-11355. | 6.6 | 156 |
| 122 | Emission Properties of 6.7 Micron Vertical-Emitting Microcavity Lasers Operating in Continuous-Wave Mode. AIP Conference Proceedings, 2007, , . | 0.3 | 0 |
| 123 | Inkjetâ€Printed Nanocrystal Photodetectors Operating up to 3â€‰Î¼m Wavelengths. Advanced Materials, 2007, 19, 3574-3578. | 11.1 | 180 |
| 124 | Structural and electronic properties of PbTe (rocksalt)/CdTe (zinc-blende) interfaces. Applied Surface Science, 2007, 254, 397-400. | 3.1 | 7 |
| 125 | The coherent {100} and {110} interfaces between rocksalt-PbTe and zincblende-CdTe. Journal of Crystal Growth, 2007, 301-302, 671-675. | 0.7 | 4 |
| 126 | Photoluminescence characterization of PbTe/CdTe quantum dots grown by lattice-type mismatched epitaxy. Journal of Crystal Growth, 2007, 301-302, 722-725. | 0.7 | 28 |

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| 127 | Quantum confinement in layer-by-layer deposited colloidal HgTe nanocrystals determined by spectroscopic ellipsometry. Applied Surface Science, 2007, 254, 291-294. | 3.1 | 10 |
| 128 | Colloidal HgTe Nanocrystals with Widely Tunable Narrow Band Gap Energies:Â From Telecommunications to Molecular Vibrations. Journal of the American Chemical Society, 2006, 128, 3516-3517. | 6.6 | 176 |
| 129 | Rebonding at coherent interfaces between rocksalt-PbTe/zinc-blende-CdTe. New Journal of Physics, 2006, 8, 317-317. | 1.2 | 32 |
| 130 | Spectroscopic ellipsometry of layer by layer deposited colloidal HgTe nanocrystals exhibiting quantum confinement. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 104-107. | 1.3 | 9 |
| 131 | Highly luminescent nanocrystal quantum dots fabricated by lattice-type mismatched epitaxy. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 35, 241-245. | 1.3 | 8 |
| 132 | On inverse systems and squarefree decomposition of zero-dimensional polynomial ideals. Journal of Symbolic Computation, 2006, 41, 261-284. | 0.5 | 3 |
| 133 | Hybrid Solar Cells Using HgTe Nanocrystals and Nanoporous TiO2 Electrodes. Advanced Functional Materials, 2006, 16, 1095-1099. | 7.8 | 69 |
| 134 | Centrosymmetric PbTeâˆ•CdTe quantum dots coherently embedded by epitaxial precipitation. Applied Physics Letters, 2006, 88, 192109. | 1.5 | 95 |
| 135 | Room temperature operation of epitaxial lead-telluride detectors monolithically integrated on midinfrared filters. Applied Physics Letters, 2006, 88, 041105. | 1.5 | 29 |
| 136 | Effect of quantum confinement on higher transitions in HgTe nanocrystals. Applied Physics Letters, 2006, 89, 193114. | 1.5 | 20 |
| 137 | Highly efficient epitaxial Bragg mirrors with broad omnidirectional reflectance bands in the midinfrared. Applied Physics Letters, 2006, 89, 051110. | 1.5 | 13 |
| 138 | Two- and one-dimensional light propagations and gain in layer-by-layer-deposited colloidal nanocrystal waveguides. Applied Physics Letters, 2006, 89, 111120. | 1.5 | 12 |
| 139 | Mid-infrared Vertical Cavity Surface Emitting Lasers based on the Lead Salt Compounds. Springer Series in Optical Sciences, 2006, , 265-301. | 0.5 | 8 |
| 140 | Molecular beam epitaxy of vertical-emitting microcavity lasers for the 6â€“8micron spectral range operating in continuous-wave mode. Journal of Crystal Growth, 2005, 278, 723-727. | 0.7 | 0 |
| 141 | Nanocrystal-based microcavity light-emitting devices operating in the telecommunication wavelength range. Applied Physics Letters, 2005, 86, 241104. | 1.5 | 16 |
| 142 | Magnetic field tunable circularly polarized stimulated emission from midinfrared IV-VI vertical emitting lasers. Applied Physics Letters, 2005, 86, 021109. | 1.5 | 5 |
| 143 | Emission properties of 6.7Î¼m continuous-wave PbSe-based vertical-emitting microcavity lasers operating up to 100K. Applied Physics Letters, 2005, 86, 031102. | 1.5 | 30 |
| 144 | Sensitivity of exciton spin relaxation in quantum dots to confining potential. Applied Physics Letters, 2005, 86, 103101. | 1.5 | 17 |

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| 145 | Negatively charged excitons as an optical probe of spin injection from Cd0.73Mg0.24Mn0.03Te spin aligner into a graded bandgap Cd1ÂxMgxTe/CdTe quantum well structure. Semiconductor Science and Technology, 2004, 19, 359-365. | 1.0 | 3 |
| 146 | IVâ€“VI resonant-cavity enhanced photodetectors for the mid-infrared. Semiconductor Science and Technology, 2004, 19, L115-L117. | 1.0 | 16 |
| 147 | Impact of carrier redistribution on the photoluminescence of CdTe self-assembled quantum dot ensembles. Physical Review B, 2004, 69, . | 1.1 | 37 |
| 148 | Resonant spectroscopy of II-VI self-assembled quantum dots: Excited states and excitonâ€“longitudinal optical phonon coupling. Physical Review B, 2004, 70, . | 1.1 | 30 |
| 149 | Magnetic polaron induced near-band-gap luminescence in epitaxial EuTe. Physical Review B, 2004, 70, . | 1.1 | 24 |
| 150 | Hysteresis loops of the energy band gap and effective g factor up to 18â€‰000 for metamagnetic EuSe epilayers. Applied Physics Letters, 2004, 85, 67-69. | 1.5 | 9 |
| 151 | Highly directional emission from colloidally synthesized nanocrystals in vertical cavities with small mode spacing. Applied Physics Letters, 2004, 84, 2223-2225. | 1.5 | 16 |
| 152 | Tuning the optical and magnetic properties of IIâ€“VI quantum dots by post-growth rapid thermal annealing. Physica Status Solidi (B): Basic Research, 2004, 241, 652-655. | 0.7 | 5 |
| 153 | Exciton-LO phonon interaction in II-VI self-assembled quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 767-770. | 0.8 | 5 |
| 154 | Continuous-wave emission from midinfrared IVâ€“VI vertical-cavity surface-emitting lasers. Applied Physics Letters, 2004, 84, 3268-3270. | 1.5 | 19 |
| 155 | Optical studies of zero-field magnetization of CdMnTe quantum dots: Influence of average size and composition of quantum dots. Journal of Applied Physics, 2004, 96, 7407-7413. | 1.1 | 16 |
| 156 | Vertical-cavity surface-emitting lasers in the 8-/spl mu/m midinfrared spectral range with continuous-wave and pulsed emission. IEEE Journal of Quantum Electronics, 2004, 40, 966-969. | 1.0 | 7 |
| 157 | Molecular Beam Epitaxial Growth and Photoluminescence Characterization of PbTe/CdTe Quantum Wells for Mid-Infrared Optical Devices. Zairyo/Journal of the Society of Materials Science, Japan, 2004, 53, 1328-1333. | 0.1 | 0 |
| 158 | Anomalous Magneto-Optical Properties of EuTe Induced by Magnetic Polarons. Journal of Superconductivity and Novel Magnetism, 2003, 16, 403-405. | 0.5 | 2 |
| 159 | Applications of lead-salt microcavities for mid-infrared devices. IEE Proceedings: Optoelectronics, 2003, 150, 332. | 0.8 | 15 |
| 160 | Optical properties of annealed CdTe self-assembled quantum dots. Applied Physics Letters, 2003, 83, 254-256. | 1.5 | 27 |
| 161 | Tuning the properties of magnetic CdMnTe quantum dots. Applied Physics Letters, 2003, 83, 3575-3577. | 1.5 | 37 |
| 162 | Spin injection through different g-factor heterointerfaces using negative trions for spin detection. Applied Physics Letters, 2003, 82, 541-543. | 1.5 | 11 |

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