

List of Publications by Year in
Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|--------------------|--------------------------|----------------|-----------------|
| 457 papers | 24,774 citations | 66 h-index | 145 g-index |
| 502 ext. papers | 28,366 ext. citations | 7.4 avg, IF | 7.03 L-index |

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 457 | Recent Progress in Improving the Performance of Infrared Photodetectors via Optical Field Manipulations.. <i>Sensors</i> , 2022 , 22, | 3.8 | 4 |
| 456 | Hybrid Dirac semimetal-based photodetector with efficient low-energy photon harvesting.. <i>Light: Science and Applications</i> , 2022 , 11, 53 | 16.7 | 10 |
| 455 | Photonic slide rule with metasurfaces.. <i>Light: Science and Applications</i> , 2022 , 11, 77 | 16.7 | 0 |
| 454 | Collapse Breakdown in Mid-wavelength Infrared HgCdTe Avalanche Photodetector. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022 , 1-1 | 3.8 | 1 |
| 453 | Self-frequency-conversion nanowire lasers.. <i>Light: Science and Applications</i> , 2022 , 11, 120 | 16.7 | 0 |
| 452 | Ultrasensitive and Self-Powered Terahertz Detection Driven by Nodal-Line Dirac Fermions and Van der Waals Architecture. <i>Advanced Science</i> , 2021 , 8, e2102088 | 13.6 | 5 |
| 451 | Direct observation and manipulation of hot electrons at room temperature. <i>National Science Review</i> , 2021 , 8, nwaa295 | 10.8 | 9 |
| 450 | 2D materials for conducting holes from grain boundaries in perovskite solar cells. <i>Light: Science and Applications</i> , 2021 , 10, 68 | 16.7 | 26 |
| 449 | Highly sensitive solar-blind deep ultraviolet photodetector based on graphene/PtSe ₂ /EGa ₂ O ₃ 2D/3D Schottky junction with ultrafast speed. <i>Nano Research</i> , 2021 , 14, 1973-1979 | 10 | 52 |
| 448 | High-frequency rectifiers based on type-II Dirac fermions. <i>Nature Communications</i> , 2021 , 12, 1584 | 17.4 | 12 |
| 447 | Blackbody-sensitive room-temperature infrared photodetectors based on low-dimensional tellurium grown by chemical vapor deposition. <i>Science Advances</i> , 2021 , 7, | 14.3 | 34 |
| 446 | Chirality-Assisted Aharonov-Bohm Geometric-Phase Metasurfaces for Spin-Decoupled Phase Modulation. <i>ACS Photonics</i> , 2021 , 8, 1847-1855 | 6.3 | 5 |
| 445 | Unipolar barrier photodetectors based on van der Waals heterostructures. <i>Nature Electronics</i> , 2021 , 4, 357-363 | 28.4 | 87 |
| 444 | Ternary 2D Layered Material FePSe ₃ and Near-Infrared Photodetector. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100207 | 6.4 | 5 |
| 443 | Dynamical evolution of anisotropic response of type-II Weyl semimetal TaIrTe under ultrafast photoexcitation. <i>Light: Science and Applications</i> , 2021 , 10, 101 | 16.7 | 8 |
| 442 | Ultralow Threshold, Single-Mode InGaAs/GaAs Multiquantum Disk Nanowire Lasers. <i>ACS Nano</i> , 2021 , 15, 9126-9133 | 16.7 | 3 |
| 441 | Liquid-phase exfoliation of violet phosphorus for electronic applications. <i>SmartMat</i> , 2021 , 2, 226-233 | 22.8 | 13 |

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| 440 | Broadband Achromatic Metalens in Mid-Wavelength Infrared. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2100020 | 8.3 | 22 |
| 439 | Anchored metallocene linear low-density polyethylene cellulose nanocrystal composites. <i>Polymer International</i> , 2021 , 70, 564-572 | 3.3 | 0 |
| 438 | Chain flexibility and glass transition temperatures of poly(n-alkyl (meth)acrylate)s: Implications of tacticity and chain dynamics. <i>Polymer</i> , 2021 , 213, 123207 | 3.9 | 7 |
| 437 | Effect of microstructure on chain flexibility and glass transition temperature of polybenzofulvene. <i>Polymer</i> , 2021 , 212, 123276 | 3.9 | 2 |
| 436 | A strategy to enhance the up-conversion luminescence of nanospherical, rod-like and tube-like NaYF ₄ : Yb ³⁺ , Er ³⁺ (Tm ³⁺) by combining with carbon dots. <i>CrystEngComm</i> , 2021 , 23, 935-943 | 3.3 | 2 |
| 435 | Mechanism of dark current dependence on reverse voltage in mid-wavelength infrared HgCdTe mesa PIN avalanche diode. <i>Optical and Quantum Electronics</i> , 2021 , 53, 1 | 2.4 | 4 |
| 434 | Artificial Structural Colors and Applications. <i>Innovation(China)</i> , 2021 , 2, 100081 | 17.8 | 34 |
| 433 | Uniformly Broadband Far-Infrared Response From the Photocarrier Tunneling of Mesa Si:P Blocked-Impurity-Band Detector. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 560-564 | 2.9 | 6 |
| 432 | Colossal Terahertz Photoresponse at Room Temperature: A Signature of Type-II Dirac Fermiology. <i>ACS Nano</i> , 2021 , 15, 5138-5146 | 16.7 | 6 |
| 431 | Axiotaxy driven growth of belt-shaped InAs nanowires in molecular beam epitaxy. <i>Nano Research</i> , 2021 , 14, 2330 | 10 | |
| 430 | Slowing Hot-Electron Relaxation in Mix-Phase Nanowires for Hot-Carrier Photovoltaics. <i>Nano Letters</i> , 2021 , 21, 7761-7768 | 11.5 | 3 |
| 429 | Quasiadiabatic electron transport in room temperature nanoelectronic devices induced by hot-phonon bottleneck. <i>Nature Communications</i> , 2021 , 12, 4752 | 17.4 | 4 |
| 428 | Direct Observation of Oxygen Evolution and Surface Restructuring on MnO Nanocatalysts Using and Transmission Electron Microscopy. <i>Nano Letters</i> , 2021 , 21, 7012-7020 | 11.5 | 3 |
| 427 | Anisotropic Hot-Electron Kinetics Revealed by Terahertz Fluctuation. <i>ACS Photonics</i> , 2021 , 8, 2674-2682 | 6.3 | 2 |
| 426 | Dual-color charge-sensitive infrared phototransistors with dynamic optical gate. <i>Applied Physics Letters</i> , 2021 , 119, 103505 | 3.4 | 1 |
| 425 | Controllable Doping in 2D Layered Materials. <i>Advanced Materials</i> , 2021 , 33, e2104942 | 24 | 20 |
| 424 | High-performance HgCdTe avalanche photodetector enabled with suppression of band-to-band tunneling effect in mid-wavelength infrared. <i>Npj Quantum Materials</i> , 2021 , 6, | 5 | 4 |
| 423 | Realizing single-mode lasing of cadmium selenide nanoribbons with strain engineering. <i>Applied Physics Letters</i> , 2020 , 116, 191104 | 3.4 | 2 |

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| 422 | In situ TEM observation of the vapor-solid-solid growth of InAs nanowires. <i>Nanoscale</i> , 2020 , 12, 11711-11717 | 11.7 | 6 |
| 421 | Theoretical Analysis of Strain-Optoelectronic Properties in Externally Deformed Ge/GeSi Quantum Well Nanomembranes via Neutral Plane Modulation. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900732 | 1.3 | |
| 420 | Atomic-Scale Insights into the Dynamics of Growth and Degradation of All-Inorganic Perovskite Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4618-4624 | 6.4 | 11 |
| 419 | InGaAsP/InP single photon avalanche diodes with ultra-high photon detection efficiency. <i>Optical and Quantum Electronics</i> , 2020 , 52, 1 | 2.4 | 2 |
| 418 | Wavelength-Tunable Mid-Infrared Lasing from Black Phosphorus Nanosheets. <i>Advanced Materials</i> , 2020 , 32, e1808319 | 24 | 34 |
| 417 | Terahertz Photon Detection: Sensitive Terahertz Detection and Imaging Driven by the Photothermoelectric Effect in Ultrashort-Channel Black Phosphorus Devices (Adv. Sci. 5/2020). <i>Advanced Science</i> , 2020 , 7, 2070029 | 13.6 | 78 |
| 416 | Circular Polarization Discrimination Enhanced by Anisotropic Media. <i>Advanced Optical Materials</i> , 2020 , 8, 1901800 | 8.1 | 7 |
| 415 | Linear array of charge sensitive infrared phototransistors for long wavelength infrared detection. <i>Applied Physics Letters</i> , 2020 , 116, 233501 | 3.4 | 3 |
| 414 | In Situ Observation of Nucleation and Crystallization of a Single Nanoparticle in Transparent Media. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15533-15540 | 3.8 | 6 |
| 413 | Site Occupation and Luminescence of Novel Orange-Red Ca ₃ M ₂ Ge ₃ O ₁₂ :Mn ²⁺ ,Mn ⁴⁺ (M = Al, Ga) Phosphors. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3357-3366 | 8.3 | 41 |
| 412 | Enhancing Luminescence and Controlling the Mn Valence State of GdGaAlO:Mn Phosphors by the Design of the Garnet Structure. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7334-7344 | 9.5 | 32 |
| 411 | Enhanced Performance of HgCdTe Long-Wavelength Infrared Photodetectors With nBn Design. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 2001-2007 | 2.9 | 8 |
| 410 | Deep UV random lasing from NaGdF:Yb,Tm upconversion nanocrystals in amorphous borosilicate glass. <i>Optics Letters</i> , 2020 , 45, 3095-3098 | 3 | 3 |
| 409 | Strain-engineered room temperature cavity polariton in ZnO whispering gallery microcavity. <i>Applied Physics Letters</i> , 2020 , 116, 021104 | 3.4 | 5 |
| 408 | Enhanced Performance of HgCdTe Midwavelength Infrared Electron Avalanche Photodetectors With Guard Ring Designs. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 542-546 | 2.9 | 13 |
| 407 | High-quality epitaxial wurtzite structured InAs nanosheets grown in MBE. <i>Nanoscale</i> , 2020 , 12, 271-276 | 7.7 | 8 |
| 406 | Surface-States-Modulated High-Performance InAs Nanowire Phototransistor. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6413-6419 | 6.4 | 10 |
| 405 | Enhanced Performance of a Soft Strain Sensor by Combining Microcracks with Wrinkled Structures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 2000400 | 2.5 | 2 |

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|-----|---|------|-----|
| 404 | Anisotropic ultrasensitive PdTe-based phototransistor for room-temperature long-wavelength detection. <i>Science Advances</i> , 2020 , 6, | 14.3 | 39 |
| 403 | Mid-infrared polarization-controlled broadband achromatic metadvice. <i>Science Advances</i> , 2020 , 6, | 14.3 | 32 |
| 402 | Au-catalysed free-standing wurtzite structured InAs nanosheets grown by molecular beam epitaxy. <i>Nano Research</i> , 2019 , 12, 2718-2722 | 10 | 6 |
| 401 | Synthesis, luminescence and application of novel europium, cerium and terbium-doped apatite phosphors. <i>CrystEngComm</i> , 2019 , 21, 6226-6237 | 3.3 | 21 |
| 400 | Controllable synthesis of multi-morphological SrWO ₄ :Ln ³⁺ (Ln = Eu, Tb) hierarchical structures and their luminescence properties. <i>CrystEngComm</i> , 2019 , 21, 6482-6490 | 3.3 | 3 |
| 399 | Epitaxial Synthesis of Monolayer PtSe Single Crystal on MoSe with Strong Interlayer Coupling. <i>ACS Nano</i> , 2019 , 13, 10929-10938 | 16.7 | 45 |
| 398 | AsP/InSe Van der Waals Tunneling Heterojunctions with Ultrahigh Reverse Rectification Ratio and High Photosensitivity. <i>Advanced Functional Materials</i> , 2019 , 29, 1900314 | 15.6 | 76 |
| 397 | Ultrathin Dielectric Perfect Absorber: Large-Area Low-Cost Dielectric Perfect Absorber by One-Step Sputtering (Advanced Optical Materials 9/2019). <i>Advanced Optical Materials</i> , 2019 , 7, 1970035 | 8.1 | 0 |
| 396 | Detection of Cell Viability via Fluorescence Labeling of Silicate Phosphor with a Low-Temperature Superlong Persistent Luminescence.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 2610-2616 | 4.1 | 3 |
| 395 | Valence Engineering via Selective Atomic Substitution on Tetrahedral Sites in Spinel Oxide for Highly Enhanced Oxygen Evolution Catalysis. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8136-8145 | 16.4 | 120 |
| 394 | Recent advances in thermoplastic elastomers from living polymerizations: Macromolecular architectures and supramolecular chemistry. <i>Progress in Polymer Science</i> , 2019 , 95, 1-31 | 29.6 | 91 |
| 393 | High-responsivity and polarization-discriminating terahertz photodetector based on plasmonic resonance. <i>Applied Physics Letters</i> , 2019 , 114, 091105 | 3.4 | 11 |
| 392 | Large-Area Low-Cost Dielectric Perfect Absorber by One-Step Sputtering. <i>Advanced Optical Materials</i> , 2019 , 7, 1801596 | 8.1 | 15 |
| 391 | Advanced Thin Film Photo-Thermal Materials and Applications 2019 , 317-381 | | 1 |
| 390 | Realization of ultra-long columnar single crystals in TiO ₂ nanotube arrays as fast electron transport channels for high efficiency dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11520-11529 | 13 | 18 |
| 389 | Cut-off wavelength manipulation of pixel-level plasmonic microcavity for long wavelength infrared detection. <i>Applied Physics Letters</i> , 2019 , 114, 061104 | 3.4 | 3 |
| 388 | Rapid and Precise Wavelength Determination Approach Based on Visually Patterned Integrated Narrow Bandpass Filters. <i>IEEE Photonics Journal</i> , 2019 , 11, 1-7 | 1.8 | 3 |
| 387 | Light-Induced Positive and Negative Photoconductances of InAs Nanowires toward Rewritable Nonvolatile Memory. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1825-1831 | 4 | 9 |

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|-----|--|------|-----|
| 386 | Growth Processes of LuF3 Upconversion Nanoflakes with the Assistance of Amorphous Nanoclusters. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5254-5259 | 5.6 | 3 |
| 385 | Study of Crystallization and Coalescence of Nanocrystals in Amorphous Glass at High Temperature. <i>Inorganic Chemistry</i> , 2019 , 58, 9500-9504 | 5.1 | 4 |
| 384 | High efficiency and fast van der Waals hetero-photodiodes with a unilateral depletion region. <i>Nature Communications</i> , 2019 , 10, 4663 | 17.4 | 127 |
| 383 | Free-Standing InAs Nanobelts Driven by Polarity in MBE. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44609-44616 | 9.5 | 5 |
| 382 | Distinctive Performance of Terahertz Photodetection Driven by Charge-Density-Wave Order in CVD-Grown Tantalum Diselenide. <i>Advanced Functional Materials</i> , 2019 , 29, 1905057 | 15.6 | 8 |
| 381 | Palladium Diselenide Long-Wavelength Infrared Photodetector with High Sensitivity and Stability. <i>ACS Nano</i> , 2019 , 13, 2511-2519 | 16.7 | 144 |
| 380 | Ultrasensitive Mid-wavelength Infrared Photodetection Based on a Single InAs Nanowire. <i>ACS Nano</i> , 2019 , 13, 3492-3499 | 16.7 | 28 |
| 379 | PtTe -Based Type-II Dirac Semimetal and Its van der Waals Heterostructure for Sensitive Room Temperature Terahertz Photodetection. <i>Small</i> , 2019 , 15, e1903362 | 11 | 55 |
| 378 | The microscopic origin of magnon-photon level attraction by traveling waves: Theory and experiment. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 19 |
| 377 | Large-area, lithography-free, narrow-band and highly directional thermal emitter. <i>Nanoscale</i> , 2019 , 11, 19742-19750 | 7.7 | 21 |
| 376 | Observable Two-Step Nucleation Mechanism in Solid-State Formation of Tungsten Carbide. <i>ACS Nano</i> , 2019 , 13, 681-688 | 16.7 | 18 |
| 375 | Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1806878 | 15.6 | 187 |
| 374 | Synthesis of naked plasmonic/magnetic Au/FeO nanostructures by plasmon-driven anti-replacement reaction. <i>Nanotechnology</i> , 2019 , 30, 065605 | 3.4 | 15 |
| 373 | Na3V2(PO4)2F3@C dispersed within carbon nanotube frameworks as a high tap density cathode for high-performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6007-6014 | 13 | 94 |
| 372 | Tungsten diselenide for all-fiber lasers with the chemical vapor deposition method. <i>Nanoscale</i> , 2018 , 10, 7971-7977 | 7.7 | 78 |
| 371 | Effect of pH on the microstructure of EGaO and its enhanced photocatalytic activity for antibiotic degradation. <i>Journal of Colloid and Interface Science</i> , 2018 , 519, 255-262 | 9.3 | 20 |
| 370 | Towards sensitive terahertz detection via thermoelectric manipulation using graphene transistors. <i>NPG Asia Materials</i> , 2018 , 10, 318-327 | 10.3 | 16 |
| 369 | Ultrafast and sensitive photodetector based on a PtSe2/silicon nanowire array heterojunction with a multiband spectral response from 200 to 1550 nm. <i>NPG Asia Materials</i> , 2018 , 10, 352-362 | 10.3 | 136 |

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| 368 | Boosting the oxygen evolution reaction in non-precious catalysts by structural and electronic engineering. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10253-10263 | 13 | 43 |
| 367 | Anisotropic Broadband Photoresponse of Layered Type-II Weyl Semimetal MoTe. <i>Advanced Materials</i> , 2018 , 30, e1707152 | 24 | 80 |
| 366 | Broadband Anisotropic Photoresponse of the "Hydrogen Atom" Version Type-II Weyl Semimetal Candidate TaIrTe. <i>ACS Nano</i> , 2018 , 12, 4055-4061 | 16.7 | 64 |
| 365 | Sub-Wavelength Grating Enhanced Ultra-Narrow Graphene Perfect Absorber. <i>Plasmonics</i> , 2018 , 13, 2267-2272 | 24.7 | 14 |
| 364 | Tetra-heteroatom self-doped carbon nanosheets derived from silkworm excrement for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2018 , 379, 74-83 | 8.9 | 69 |
| 363 | Optical temperature sensing properties of KLu2F7: Yb3+/Er3+/Nd3+ nanoparticles under NIR excitation. <i>Journal of Alloys and Compounds</i> , 2018 , 742, 497-503 | 5.7 | 27 |
| 362 | Rational Design of Multifunctional Fe@Fe ₃ O ₄ /H-TiO ₂ Nanocomposites with Enhanced Magnetic and Photoconversion Effects for Wide Applications: From Photocatalysis to Imaging-Guided Photothermal Cancer Therapy. <i>Advanced Materials</i> , 2018 , 30, e1706747 | 24 | 79 |
| 361 | Exploring Anomalous Polarization Dynamics in Organometallic Halide Perovskites. <i>Advanced Materials</i> , 2018 , 30, 1705298 | 24 | 38 |
| 360 | Optical Waveguide of Buckled CdS Nanowires Modulated by Strain-Engineering. <i>ACS Photonics</i> , 2018 , 5, 746-751 | 6.3 | 12 |
| 359 | Controlled synthesis of 3D flower-like MgWO ₄ :Eu ³⁺ hierarchical structures and fluorescence enhancement through introduction of carbon dots. <i>CrystEngComm</i> , 2018 , 20, 608-614 | 3.3 | 15 |
| 358 | Twin Engineering in Solution-Synthesized Nonstoichiometric Cu ₅ FeS ₄ Icosahedral Nanoparticles for Enhanced Thermoelectric Performance. <i>Advanced Functional Materials</i> , 2018 , 28, 1705117 | 15.6 | 37 |
| 357 | Multifunctional NiTiO ₃ nanocoating fabrication based on the dual-Kirkendall effect enabling a stable cathode/electrolyte interface for nickel-rich layered oxides. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2643-2652 | 13 | 14 |
| 356 | Imaging of nonlocal hot-electron energy dissipation via shot noise. <i>Science</i> , 2018 , 360, 775-778 | 33.3 | 56 |
| 355 | Significant Enhancement of Single-Walled Carbon Nanotube Based Infrared Photodetector Using PbS Quantum Dots. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-8 | 3.8 | 16 |
| 354 | In situ TEM study of the sodiation/desodiation mechanism of MnO ₂ nanowire with gel-electrolytes. <i>Energy Storage Materials</i> , 2018 , 15, 91-97 | 19.4 | 15 |
| 353 | Top-gated black phosphorus phototransistor for sensitive broadband detection. <i>Nanoscale</i> , 2018 , 10, 5852-5858 | 7.7 | 14 |
| 352 | Influencing Sources for Dark Current Transport and Avalanche Mechanisms in Planar and Mesa HgCdTe p-i-n Electron-Avalanche Photodiodes. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 572-576 | 2.9 | 28 |
| 351 | Dark Mode Driven Extra-narrow and Multiband Absorber. <i>Plasmonics</i> , 2018 , 13, 729-735 | 2.4 | 8 |

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| 350 | All-acrylic superelastomers: facile synthesis and exceptional mechanical behavior. <i>Polymer Chemistry</i> , 2018 , 9, 160-168 | 4.9 | 12 |
| 349 | Optical thermometry based on up-conversion emission behavior of Ba ₂ LaF ₇ nano-crystals embedded in glass matrix. <i>Journal of Luminescence</i> , 2018 , 194, 433-439 | 3.8 | 35 |
| 348 | Design and Synthesis of Multigraft Copolymer Thermoplastic Elastomers: Superelastomers. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1700254 | 2.6 | 17 |
| 347 | Energy transfer and color tunable emission in Tb,Eu co-doped SrLaNa(PO) ₄ F phosphors. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 190, 246-252 | 4.4 | 31 |
| 346 | Multi-Band Up-Converted Lasing Behavior in NaYF ₄ /Yb/Er Nanocrystals. <i>Nanomaterials</i> , 2018 , 8, | 5.4 | 10 |
| 345 | High-Speed Visible Light Communications: Enabling Technologies and State of the Art. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 589 | 2.6 | 33 |
| 344 | Room-Temperature Single-Photon Detector Based on Single Nanowire. <i>Nano Letters</i> , 2018 , 18, 5439-5445 | 4.5 | 34 |
| 343 | Ultrafast Thulium-Doped Fiber Laser Mode Locked by Monolayer WSe ₂ . <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-6 | 3.8 | 26 |
| 342 | Ferroelastic domain structure and phase transition in single-crystalline [PbZn _{1/3} Nb _{2/3} O ₃] _{1-x} [PbTiO ₃] _x observed via in situ x-ray microbeam. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 1488-1497 | 6 | 3 |
| 341 | Photodetectors: Ultrasensitive Room-Temperature Terahertz Direct Detection Based on a Bismuth Selenide Topological Insulator (Adv. Funct. Mater. 31/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870219 | 15.6 | 3 |
| 340 | Strong terahertz response in quantum well photodetector based on intradonor transition by magnetic field. <i>AIP Advances</i> , 2018 , 8, 125014 | 1.5 | 2 |
| 339 | Selected and Enhanced Single Whispering-Gallery Mode Emission from a Mesostructured Nanomembrane Microcavity. <i>Nano Letters</i> , 2018 , 18, 8035-8040 | 11.5 | 11 |
| 338 | In Situ TEM Observation of Crystal Structure Transformation in InAs Nanowires on Atomic Scale. <i>Nano Letters</i> , 2018 , 18, 6597-6603 | 11.5 | 18 |
| 337 | Integration of nanoscale light emitters: an efficient ultraviolet and blue random lasing from NaYF ₄ :Yb/Tm hexagonal nanocrystals. <i>Photonics Research</i> , 2018 , 6, 943 | 6 | 9 |
| 336 | Terahertz probe of photoexcited carrier dynamics in the Dirac semimetal Cd ₃ As ₂ . <i>Physical Review B</i> , 2018 , 98, | 3.3 | 25 |
| 335 | Hierarchically Ordered Nanochannel Array Membrane Reactor with Three-Dimensional Electrocatalytic Interfaces for Electrohydrogenation of CO ₂ to Alcohol. <i>ACS Energy Letters</i> , 2018 , 3, 2649-2655 | 29.1 | 10 |
| 334 | Exceptional catalytic effects of black phosphorus quantum dots in shuttling-free lithium sulfur batteries. <i>Nature Communications</i> , 2018 , 9, 4164 | 17.4 | 210 |
| 333 | Room-Temperature High-Gain Long-Wavelength Photodetector via Optical/Electrical Controlling of Hot Carriers in Graphene. <i>Advanced Optical Materials</i> , 2018 , 6, 1800836 | 8.1 | 15 |

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| 332 | High extinction ratio super pixel for long wavelength infrared polarization imaging detection based on plasmonic microcavity quantum well infrared photodetectors. <i>Scientific Reports</i> , 2018 , 8, 15070 | 4.9 | 17 |
| 331 | Towards high areal capacitance, rate capability, and tailorable supercapacitors: Co ₃ O ₄ @polypyrrole core-shell nanorod bundle array electrodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19058-19065 | 13 | 79 |
| 330 | Selected-Area Chemical Nanoengineering of Vanadium Dioxide Nanostructures Through Nonlithographic Direct Writing. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800974 | 4.6 | 7 |
| 329 | Plasmon-engineered anti-replacement synthesis of naked Cu nanoclusters with ultrahigh electrocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18687-18693 | 13 | 21 |
| 328 | Crystal-phase control of GaAs _{1-x} GaAsSb core-shell/axial nanowire heterostructures by a two-step growth method. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6726-6732 | 7.1 | 19 |
| 327 | Ultrasensitive Room-Temperature Terahertz Direct Detection Based on a Bismuth Selenide Topological Insulator. <i>Advanced Functional Materials</i> , 2018 , 28, 1801786 | 15.6 | 48 |
| 326 | Facile Preparation of Double Rare Earth-Doped Carbon Dots for MRI/CT/FI Multimodal Imaging. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2544-2551 | 5.6 | 22 |
| 325 | Influence of Plasmonic Effect on the Upconversion Emission Characteristics of NaYF ₄ Hexagonal Microrods. <i>Inorganic Chemistry</i> , 2018 , 57, 8200-8204 | 5.1 | 11 |
| 324 | Strategy to Enhance the Luminescence of Lanthanide Ions Doped MgWO Nanosheets through Incorporation of Carbon Dots. <i>Inorganic Chemistry</i> , 2018 , 57, 8662-8672 | 5.1 | 34 |
| 323 | Tailoring Active Far-Infrared Resonator with Graphene Metasurface and Its Complementary. <i>Plasmonics</i> , 2017 , 12, 353-360 | 2.4 | 4 |
| 322 | Toward Sensitive Room-Temperature Broadband Detection from Infrared to Terahertz with Antenna-Integrated Black Phosphorus Photoconductor. <i>Advanced Functional Materials</i> , 2017 , 27, 1604414 | 15.6 | 68 |
| 321 | Design of Hierarchical Ni ₂ Co@Ni ₂ Co Layered Double Hydroxide Core-Shell Structured Nanotube Array for High-Performance Flexible All-Solid-State Battery-Type Supercapacitors. <i>Advanced Functional Materials</i> , 2017 , 27, 1605307 | 15.6 | 230 |
| 320 | Evidencing the structural conversion of hydrothermally synthesized titanate nanorods by in situ electron microscopy. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3786-3791 | 13 | 5 |
| 319 | In situ observation of the thermal stability of black phosphorus. <i>2D Materials</i> , 2017 , 4, 025001 | 5.9 | 29 |
| 318 | Ultrafast relaxation dynamics of photoexcited Dirac fermions in the three-dimensional Dirac semimetal Cd ₃ As ₂ . <i>Physical Review B</i> , 2017 , 95, | 3.3 | 34 |
| 317 | High-temperature long persistent and photo-stimulated luminescence in Tb ³⁺ doped gallate phosphor. <i>Journal of Alloys and Compounds</i> , 2017 , 701, 774-779 | 5.7 | 23 |
| 316 | Tailoring Anisotropic Li-Ion Transport Tunnels on Orthogonally Arranged Li-Rich Layered Oxide Nanoplates Toward High-Performance Li-Ion Batteries. <i>Nano Letters</i> , 2017 , 17, 1670-1677 | 11.5 | 99 |
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