

List of Publications by Citations

Source: <https://exaly.com/author-pdf/823954/wei-lu-publications-by-citations.pdf>
Version: 2024-04-11

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Improved synthesis of graphene oxide. <i>ACS Nano</i> , 2010 , 4, 4806-14	16.7	8269
456	Observation of conducting filament growth in nanoscale resistive memories. <i>Nature Communications</i> , 2012 , 3, 732	17.4	782
455	Ultrasensitive and Broadband MoS ₂ Photodetector Driven by Ferroelectrics. <i>Advanced Materials</i> , 2015 , 27, 6575-81	24	559
454	High-density crossbar arrays based on a Si memristive system. <i>Nano Letters</i> , 2009 , 9, 870-4	11.5	441
453	Surface Plasmon-Enhanced Photodetection in Few Layer MoS ₂ Phototransistors with Au Nanostructure Arrays. <i>Small</i> , 2015 , 11, 2392-8	11	292
452	Room temperature high-detectivity mid-infrared photodetectors based on black arsenic phosphorus. <i>Science Advances</i> , 2017 , 3, e1700589	14.3	269
451	Highly ordered iron oxide nanotube arrays as electrodes for electrochemical energy storage. <i>Electrochemistry Communications</i> , 2011 , 13, 657-660	5.1	247
450	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
449	Exceptional catalytic effects of black phosphorus quantum dots in shuttling-free lithium sulfur batteries. <i>Nature Communications</i> , 2018 , 9, 4164	17.4	210
448	Single InAs nanowire room-temperature near-infrared photodetectors. <i>ACS Nano</i> , 2014 , 8, 3628-35	16.7	202
447	Nanoscale resistive switching devices: mechanisms and modeling. <i>Nanoscale</i> , 2013 , 5, 10076-92	7.7	197
446	Simultaneous Realization of Phase/Size Manipulation, Upconversion Luminescence Enhancement, and Blood Vessel Imaging in Multifunctional Nanoprobes Through Transition Metal Mn ²⁺ Doping. <i>Advanced Functional Materials</i> , 2014 , 24, 4051-4059	15.6	190
445	Controlled Synthesis of 2D Palladium Diselenide for Sensitive Photodetector Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1806878	15.6	187
444	Tunable blue-green-emitting Ba ₃ LaNa(PO ₄) ₃ F:Eu ²⁺ , Tb ³⁺ phosphor with energy transfer for near-UV white LEDs. <i>Inorganic Chemistry</i> , 2013 , 52, 10340-6	5.1	185
443	Recent Progress on Localized Field Enhanced Two-dimensional Material Photodetectors from Ultraviolet-Visible to Infrared. <i>Small</i> , 2017 , 13, 1700894	11	181
442	Ultrafine sulfur nanoparticles in conducting polymer shell as cathode materials for high performance lithium/sulfur batteries. <i>Scientific Reports</i> , 2013 , 3, 1910	4.9	178
441	Nitrogen-Doped Carbon for Sodium-Ion Battery Anode by Self-Etching and Graphitization of Bimetallic MOF-Based Composite. <i>Chem</i> , 2017 , 3, 152-163	16.2	171

440	Hierarchical porous plasmonic metamaterials for reproducible ultrasensitive surface-enhanced Raman spectroscopy. <i>Advanced Materials</i> , 2015 , 27, 1090-6	24	162
439	Arrayed Van Der Waals Broadband Detectors for Dual-Band Detection. <i>Advanced Materials</i> , 2017 , 29, 1604439	24	161
438	A novel efficient Mn ⁴⁺ activated Ca ₁₄ Al ₁₀ Zn ₆ O ₃₅ phosphor: application in red-emitting and white LEDs. <i>Inorganic Chemistry</i> , 2014 , 53, 11985-90	5.1	161
437	Superior Potassium Ion Storage via Vertical MoS ₂ "Nano-Rose" with Expanded Interlayers on Graphene. <i>Small</i> , 2017 , 13, 1701471	11	161
436	Tunable color of Ce ³⁺ /Tb ³⁺ /Mn(2+)-coactivated CaScAlSiO ₆ via energy transfer: a single-component red/white-emitting phosphor. <i>Inorganic Chemistry</i> , 2013 , 52, 3007-12	5.1	153
435	Large Energy Storage Density and High Thermal Stability in a Highly Textured (111)-Oriented Pb _{0.8} Ba _{0.2} ZrO ₃ Relaxor Thin Film with the Coexistence of Antiferroelectric and Ferroelectric Phases. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13512-7	9.5	148
434	Direct TEM observations of growth mechanisms of two-dimensional MoS ₂ flakes. <i>Nature Communications</i> , 2016 , 7, 12206	17.4	147
433	Palladium Diselenide Long-Wavelength Infrared Photodetector with High Sensitivity and Stability. <i>ACS Nano</i> , 2019 , 13, 2511-2519	16.7	144
432	Giant Electric Energy Density in Epitaxial Lead-Free Thin Films with Coexistence of Ferroelectrics and Antiferroelectrics. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500052	6.4	141
431	Ultrafast and sensitive photodetector based on a PtSe ₂ /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
430	Anomalous and highly efficient InAs nanowire phototransistors based on majority carrier transport at room temperature. <i>Advanced Materials</i> , 2014 , 26, 8203-9	24	133
429	High efficiency and fast van der Waals hetero-photodiodes with a unilateral depletion region. <i>Nature Communications</i> , 2019 , 10, 4663	17.4	127
428	Porous platinum nanowire arrays for direct ethanol fuel cell applications. <i>Chemical Communications</i> , 2009 , 195-7	5.8	127
427	Ferroelectric-Enhanced Polysulfide Trapping for Lithium-Sulfur Battery Improvement. <i>Advanced Materials</i> , 2017 , 29, 1604724	24	124
426	Sr ₃ GdNa(PO ₄) ₃ F:Eu ²⁺ ,Mn ²⁺ : a potential color tunable phosphor for white LEDs. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 90-97	7.1	124
425	Toward Dendrite-Free Lithium Deposition via Structural and Interfacial Synergistic Effects of 3D Graphene@Ni Scaffold. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26091-26097	9.5	121
424	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
423	Dual-modal upconversion fluorescent/X-ray imaging using ligand-free hexagonal phase NaLuF ₄ :Gd/Yb/Er nanorods for blood vessel visualization. <i>Biomaterials</i> , 2014 , 35, 2934-41	15.6	113

422	Remarkable NIR Enhancement of Multifunctional Nanoprobes for In Vivo Trimodal Bioimaging and Upconversion Optical/T2-Weighted MRI-Guided Small Tumor Diagnosis. <i>Advanced Functional Materials</i> , 2015 , 25, 7119-7129	15.6	106
421	Graphene/sulfur hybrid nanosheets from a space-confined "sauna" reaction for high-performance lithium-sulfur batteries. <i>Advanced Materials</i> , 2015 , 27, 5936-42	24	106
420	Crystal Structure and Luminescence Properties of Ca ₈ Mg ₃ Al ₂ Si ₇ O ₂₈ :Eu ²⁺ for WLEDs. <i>Advanced Optical Materials</i> , 2014 , 2, 183-188	8.1	106
419	When Nanowires Meet Ultrahigh Ferroelectric Field-High-Performance Full-Depleted Nanowire Photodetectors. <i>Nano Letters</i> , 2016 , 16, 2548-55	11.5	103
418	High-Sensitivity Floating-Gate Phototransistors Based on WS ₂ and MoS ₂ . <i>Advanced Functional Materials</i> , 2016 , 26, 6084-6090	15.6	103
417	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
416	Melting behavior in ultrathin metallic nanowires. <i>Physical Review B</i> , 2002 , 66,	3.3	95
415	Na ₃ V ₂ (PO ₄) ₂ F ₃ @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
414	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
413	Visible Light-Assisted High-Performance Mid-Infrared Photodetectors Based on Single InAs Nanowire. <i>Nano Letters</i> , 2016 , 16, 6416-6424	11.5	90
412	Interfacial Properties of Polymer Nanocomposites: Role of Chain Rigidity and Dynamic Heterogeneity Length Scale. <i>Macromolecules</i> , 2017 , 50, 2397-2406	5.5	87
411	pH-responsive poly (acrylic acid)-gated mesoporous silica and its application in oral colon targeted drug delivery for doxorubicin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 154, 287-296	6	87
410	High-Performance Ferroelectric Polymer Side-Gated CdS Nanowire Ultraviolet Photodetectors. <i>Advanced Functional Materials</i> , 2016 , 26, 7690-7696	15.6	87
409	Temperature sensing based on the up-conversion emission of Tm ³⁺ in a single KLuF ₄ microcrystal. <i>Journal of Alloys and Compounds</i> , 2017 , 728, 1037-1042	5.7	87
408	Unipolar barrier photodetectors based on van der Waals heterostructures. <i>Nature Electronics</i> , 2021 , 4, 357-363	28.4	87
407	Phonon-Assisted Population Inversion in Lanthanide-Doped Upconversion Ba LaF Nanocrystals in Glass-Ceramics. <i>Advanced Materials</i> , 2016 , 28, 8045-8050	24	86
406	Dynamic metamaterial based on the graphene split ring high-Q Fano-resonator for sensing applications. <i>Nanoscale</i> , 2016 , 8, 15196-204	7.7	85
405	Anisotropic Broadband Photoresponse of Layered Type-II Weyl Semimetal MoTe. <i>Advanced Materials</i> , 2018 , 30, e1707152	24	80

404	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
403	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
402	Engineering hetero-epitaxial nanostructures with aligned Li-ion channels in Li-rich layered oxides for high-performance cathode application. <i>Nano Energy</i> , 2017 , 35, 271-280	17.1	78
401	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
400	Tungsten diselenide for all-fiber lasers with the chemical vapor deposition method. <i>Nanoscale</i> , 2018 , 10, 7971-7977	7.7	78
399	Tunable active edge sites in PtSe ₂ films towards hydrogen evolution reaction. <i>Nano Energy</i> , 2017 , 42, 26-33	17.1	77
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	Design of a luminescence pattern via altering the crystal structure and doping ions to create warm white LEDs. <i>Chemical Communications</i> , 2014 , 50, 2635-7	5.8	76
396	Simultaneous synthesis and amine-functionalization of single-phase BaYF ₅ :Yb/Er nanoprobe for dual-modal in vivo upconversion fluorescence and long-lasting X-ray computed tomography imaging. <i>Nanoscale</i> , 2013 , 5, 6023-9	7.7	74
395	Synergistic dual-modality in vivo upconversion luminescence/X-ray imaging and tracking of amine-functionalized NaYbF ₄ :Er nanoprobes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3839-46	9.5	70
394	Iron supported C@Fe ₃ O ₄ nanotube array: a new type of 3D anode with low-cost for high performance lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5560		70
393	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
392	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
391	High-polarization-discriminating infrared detection using a single quantum well sandwiched in plasmonic micro-cavity. <i>Scientific Reports</i> , 2014 , 4, 6332	4.9	65
390	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
389	Commercial Dacron cloth supported Cu(OH) ₂ nanobelt arrays for wearable supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14781-14788	13	62
388	Aqueous manganese dioxide ink for paper-based capacitive energy storage devices. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6800-3	16.4	61
387	High Temperature Crystallization of Free-Standing Anatase TiO ₂ Nanotube Membranes for High Efficiency Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2013 , 23, 5952-5960	15.6	60

- 386 Highly sensitive gas sensor by the LaAlO₃/SrTiO₃ heterostructure with Pd nanoparticle surface modulation. *Advanced Materials*, **2014**, 26, 5962-8 24 58
- 385 Multiple channeled phenomena in heterostructures with defects mode. *Applied Physics Letters*, **2004**, 84, 1629-1631 3.4 58
- 384 Imaging of nonlocal hot-electron energy dissipation via shot noise. *Science*, **2018**, 360, 775-778 33.3 56
- 383 Real-Time Observation of the Electrode-Size-Dependent Evolution Dynamics of the Conducting Filaments in a SiO Layer. *ACS Nano*, **2017**, 11, 4097-4104 16.7 55
- 382 Broadband Yellowish-Green Emitting Ba₄Gd₃Na₃(PO₄)₆F₂:Eu(2+) Phosphor: Structure Refinement, Energy Transfer, and Thermal Stability. *Inorganic Chemistry*, **2016**, 55, 6107-13 5.1 55
- 381 PtTe₂-Based Type-II Dirac Semimetal and Its van der Waals Heterostructure for Sensitive Room Temperature Terahertz Photodetection. *Small*, **2019**, 15, e1903362 11 55
- 380 Tunable and high-sensitivity sensing based on Fano resonance with coupled plasmonic cavities. *Scientific Reports*, **2017**, 7, 10639 4.9 53
- 379 Generation of orange and green emissions in Ca₂GdZr₂(AlO₄)₃:Ce³⁺, Mn²⁺, Tb³⁺ garnets via energy transfer with Mn²⁺ and Tb³⁺ as acceptors. *Journal of Materials Chemistry C*, **2015**, 3, 2334-2340 7.1 53
- 378 Self-rolling and light-trapping in flexible quantum well-embedded nanomembranes for wide-angle infrared photodetectors. *Science Advances*, **2016**, 2, e1600027 14.3 52
- 377 Droop improvement in blue InGaN/GaN multiple quantum well light-emitting diodes with indium graded last barrier. *Applied Physics Letters*, **2011**, 99, 233501 3.4 52
- 376 Highly sensitive solar-blind deep ultraviolet photodetector based on graphene/PtSe₂/EGa₂O₃ 2D/3D Schottky junction with ultrafast speed. *Nano Research*, **2021**, 14, 1973-1979 10 52
- 375 PEGylated NaLuF₄: Yb/Er upconversion nanophosphors for in vivo synergistic fluorescence/X-ray bioimaging and long-lasting, real-time tracking. *Biomaterials*, **2014**, 35, 9689-97 15.6 51
- 374 Structure and magnetic properties of Co-Cu bimetallic clusters. *Physical Review B*, **2002**, 66, 3.3 51
- 373 Visible to near-infrared photodetectors based on MoS₂ vertical Schottky junctions. *Nanotechnology*, **2017**, 3.4 51
- 372 Sponge-like Ni(OH)₂-NiF₂ composite film with excellent electrochemical performance. *Physical Chemistry Chemical Physics*, **2013**, 15, 1601-5 3.6 50
- 371 Ultrasensitive Room-Temperature Terahertz Direct Detection Based on a Bismuth Selenide Topological Insulator. *Advanced Functional Materials*, **2018**, 28, 1801786 15.6 48
- 370 Enabling effective polysulfide trapping and high sulfur loading via a pyrrole modified graphene foam host for advanced lithium-sulfur batteries. *Journal of Materials Chemistry A*, **2017**, 5, 7309-7315 13 47
- 369 Fermi surface and band renormalization of Sr_{1-x}K_xFe₂As₂ from angle-resolved photoemission spectroscopy. *Physical Review B*, **2008**, 78, 3.3 46

368	Epitaxial Synthesis of Monolayer PtSe Single Crystal on MoSe with Strong Interlayer Coupling. <i>ACS Nano</i> , 2019 , 13, 10929-10938	16.7	45
367	Highly sensitive and wide-band tunable terahertz response of plasma waves based on graphene field effect transistors. <i>Scientific Reports</i> , 2014 , 4, 5470	4.9	45
366	A facile route to fabricate an anodic TiO ₂ nanotube-nanoparticle hybrid structure for high efficiency dye-sensitized solar cells. <i>Nanoscale</i> , 2012 , 4, 5148-53	7.7	45
365	Study of gain and photoresponse characteristics for back-illuminated separate absorption and multiplication GaN avalanche photodiodes. <i>Journal of Applied Physics</i> , 2014 , 115, 013103	2.5	44
364	Large-area highly crystalline WSe atomic layers for ultrafast pulsed lasers. <i>Optics Express</i> , 2017 , 25, 30020-30034	9.3	44
363	Monotonic d-wave superconducting gap of the optimally doped Bi ₂ Sr _{1.6} La _{0.4} CuO ₆ superconductor by laser-based angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2009 , 79,	3.3	44
362	Tunable white light of a Ce,Tb,Mn triply doped NaCaSiO phosphor for high colour-rendering white LED applications: tunable luminescence and energy transfer. <i>Dalton Transactions</i> , 2017 , 46, 9272-9279	4.3	43
361	Enhanced upconversion luminescence and single-band red emission of NaErF ₄ nanocrystals via Mn ²⁺ doping. <i>Journal of Alloys and Compounds</i> , 2015 , 618, 776-780	5.7	43
360	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
359	Dependence of Ion-Implant-Induced LBIC Novel Characteristic on Excitation Intensity for Long-Wavelength HgCdTe-Based Photovoltaic Infrared Detector Pixel Arrays. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 1-7	3.8	43
358	Facile synthesis of a mechanically robust and highly porous NiO film with excellent electrocatalytic activity towards methanol oxidation. <i>Nanoscale</i> , 2016 , 8, 11256-63	7.7	43
357	Hydrothermal growth and optical properties of Nb ₂ O ₅ nanorod arrays. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8185-8190	7.1	42
356	Multi-functional NaErF ₄ :Yb nanorods: enhanced red upconversion emission, in vitro cell, in vivo X-ray, and T ₂ -weighted magnetic resonance imaging. <i>Nanoscale</i> , 2014 , 6, 2855-60	7.7	42
355	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
354	Dark Current Transport and Avalanche Mechanism in HgCdTe Electron-Avalanche Photodiodes. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 1926-1931	2.9	39
353	Anisotropic ultrasensitive PdTe-based phototransistor for room-temperature long-wavelength detection. <i>Science Advances</i> , 2020 , 6,	14.3	39
352	Ultrafine Cobalt Sulfide Nanoparticles Encapsulated Hierarchical N-doped Carbon Nanotubes for High-performance Lithium Storage. <i>Electrochimica Acta</i> , 2017 , 225, 137-142	6.7	38
351	Exploring Anomalous Polarization Dynamics in Organometallic Halide Perovskites. <i>Advanced Materials</i> , 2018 , 30, 1705298	24	38

- 350 Broadband circular polarizers constructed using helix-like chiral metamaterials. *Nanoscale*, **2016**, 8, 14725-9 38
- 349 Accurate Simulation of Temperature-Dependent Dark Current in HgCdTe Infrared Detectors Assisted by Analytical Modeling. *Journal of Electronic Materials*, **2010**, 39, 981-985 1.9 38
- 348 Twin Engineering in Solution-Synthesized Nonstoichiometric Cu₅FeS₄ Icosahedral Nanoparticles for Enhanced Thermoelectric Performance. *Advanced Functional Materials*, **2018**, 28, 1705117 15.6 37
- 347 Hybrid WSe-InO Phototransistor with Ultrahigh Detectivity by Efficient Suppression of Dark Currents. *ACS Applied Materials & Interfaces*, **2017**, 9, 34489-34496 9.5 37
- 346 Hybrid luminescence materials assembled by [Ln(DPA)₃](3-) and mesoporous host through ion-pairing interactions with high quantum efficiencies and long lifetimes. *Scientific Reports*, **2015**, 5, 8385 4.9 37
- 345 Efficiency enhancement of blue InGaN/GaN light-emitting diodes with an AlGaN-GaN-AlGaN electron blocking layer. *Journal of Applied Physics*, **2012**, 111, 094503 2.5 37
- 344 Giant and broadband circular asymmetric transmission based on two cascading polarization conversion cavities. *Nanoscale*, **2016**, 8, 8189-94 7.7 37
- 343 Controllable synthesis of Ln³⁺ (Ln = Tb, Eu) doped zinc phosphate nano-/micro-structured materials: phase, morphology and luminescence properties. *Nanoscale*, **2014**, 6, 2137-45 7.7 36
- 342 Structure and photoluminescence properties of novel Ca₂NaSiO₄F:Re (Re = Eu²⁺, Ce³⁺, Tb³⁺) phosphors with energy transfer for white emitting LEDs. *Journal of Materials Chemistry C*, **2014**, 2, 4304-4311 7.1 36
- 341 Bipolar Carrier Transfer Channels in Epitaxial Graphene/SiC Core-Shell Heterojunction for Efficient Photocatalytic Hydrogen Evolution. *Advanced Materials*, **2015**, 27, 7986-91 24 36
- 340 Formation of stable fullerenelike GaAs_n clusters (600): Gradient-corrected density-functional theory and a genetic global optimization approach. *Physical Review B*, **2006**, 74, 041408 3.3 36
- 339 Substrate orientation-induced epitaxial growth of face centered cubic Mo₂C superconductive thin film. *Journal of Materials Chemistry C*, **2017**, 5, 10822-10827 7.1 35
- 338 Optical thermometry based on up-conversion emission behavior of Ba₂LaF₇ nano-crystals embedded in glass matrix. *Journal of Luminescence*, **2018**, 194, 433-439 3.8 35
- 337 Multi-color luminescence of uniform CdWO₄ nanorods through Eu³⁺ ion doping. *Journal of Materials Chemistry C*, **2015**, 3, 2865-2871 7.1 35
- 336 Ultrafast relaxation dynamics of photoexcited Dirac fermions in the three-dimensional Dirac semimetal Cd₃As₂. *Physical Review B*, **2017**, 95, 041408 3.3 34
- 335 MoS₂ nanosheet photodetectors with ultrafast response. *Applied Physics Letters*, **2017**, 111, 153502 3.4 34
- 334 Wavelength-Tunable Mid-Infrared Lasing from Black Phosphorus Nanosheets. *Advanced Materials*, **2020**, 32, e1808319 24 34
- 333 Pixel-level plasmonic microcavity infrared photodetector. *Scientific Reports*, **2016**, 6, 25849 4.9 34

332	Room-Temperature Single-Photon Detector Based on Single Nanowire. <i>Nano Letters</i> , 2018 , 18, 5439-5445	1.5	34
331	Urchin-like Ce/Tb co-doped GdPO hollow spheres for in vivo luminescence/X-ray bioimaging and drug delivery. <i>Biomaterials Science</i> , 2014 , 2, 1404-1411	7.4	34
330	Backside-illuminated infrared photoluminescence and photoreflectance: Probe of vertical nonuniformity of HgCdTe on GaAs. <i>Applied Physics Letters</i> , 2010 , 96, 121915	3.4	34
329	A novel nanostructure and multiferroic properties in Pb(Zr _{0.52} Ti _{0.48})O ₃ /CoFe ₂ O ₄ nanocomposite films grown by pulsed-laser deposition. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 235405	3	34
328	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
327	Artificial Structural Colors and Applications. <i>Innovation(China)</i> , 2021 , 2, 100081	17.8	34
326	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
325	High-Speed Visible Light Communications: Enabling Technologies and State of the Art. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 589	2.6	33
324	YF ₃ :Eu ³⁺ Micro-Single Crystals: Fine Morphological Tuning and Luminescence Properties. <i>Crystal Growth and Design</i> , 2013 , 13, 3582-3587	3.5	33
323	High performance colored selective absorbers for architecturally integrated solar applications. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 7353-7360	13	33
322	Structure and quality controlled growth of InAs nanowires through catalyst engineering. <i>Nano Research</i> , 2014 , 7, 1640-1649	10	33
321	Organic-free Anatase TiO ₂ Paste for Efficient Plastic Dye-Sensitized Solar Cells and Low Temperature Processed Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19431-8	9.5	32
320	High quality polyacrylic acid modified multifunction luminescent nanorods for tri-modality bioimaging, in vivo long-lasting tracking and biodistribution. <i>Nanoscale</i> , 2015 , 7, 542-50	7.7	32
319	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
318	Highly entangled carbon nanoflakes on Li ₃ V ₂ (PO ₄) ₃ microrods for improved lithium storage performance. <i>RSC Advances</i> , 2013 , 3, 1297-1301	3.7	32
317	Self-Assembly Growth of In-Rich InGaAs Core-Shell Structured Nanowires with Remarkable Near-Infrared Photoresponsivity. <i>Nano Letters</i> , 2017 , 17, 7824-7830	11.5	32
316	Mid-infrared polarization-controlled broadband achromatic metadevice. <i>Science Advances</i> , 2020 , 6,	14.3	32
315	Energy transfer and color tunable emission in Tb,Eu co-doped SrLaNa(PO) ₃ F phosphors. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 190, 246-252	4.4	31

314	Efficient sensitization of Mn ²⁺ emission by Eu ²⁺ in Ca ₁₂ Al ₁₄ O ₃₃ Cl ₂ host under UV excitation. <i>RSC Advances</i> , 2013 , 3, 16034	3.7	31
313	Mechanisms of infrared photoluminescence in HgTe/HgCdTe superlattice. <i>Journal of Applied Physics</i> , 2012 , 112, 063512	2.5	31
312	Quality of epitaxial InAs nanowires controlled by catalyst size in molecular beam epitaxy. <i>Applied Physics Letters</i> , 2013 , 103, 073109	3.4	30
311	In situ observation of the thermal stability of black phosphorus. <i>2D Materials</i> , 2017 , 4, 025001	5.9	29
310	Enhancing photoluminescence performance of SrSi ₂ O ₂ N ₂ :Eu(2+) phosphors by Re (Re = La, Gd, Y, Dy, Lu, Sc) substitution and its thermal quenching behavior investigation. <i>Inorganic Chemistry</i> , 2015 , 54, 9060-5	5.1	29
309	Controllable in situ synthesis of epsilon manganese dioxide hollow structure/RGO nanocomposites for high-performance supercapacitors. <i>Nanoscale</i> , 2016 , 8, 1854-60	7.7	29
308	Recent Progresses and Development of Advanced Atomic Layer Deposition towards High-Performance Li-Ion Batteries. <i>Nanomaterials</i> , 2017 , 7,	5.4	29
307	Self-doped rutile titania with high performance for direct and ultrafast assay of H ₂ O ₂ . <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 12784-8	9.5	29
306	Fabrication of a novel TiO ₂ /S composite cathode for high performance lithium-sulfur batteries. <i>RSC Advances</i> , 2015 , 5, 77348-77353	3.7	28
305	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
304	An intense NIR emission from Ca ₁₄ Al ₁₀ Zn ₆ O ₃₅ :Mn(4+),Yb(3+) via energy transfer for solar spectral converters. <i>Dalton Transactions</i> , 2016 , 45, 466-8	4.3	28
303	Novel Two-Step Topotactic Transformation Synthetic Route Towards Monodisperse LnOF:Re, ³⁺ (Ln = Y, Pr, Lu) Nanocrystals with Down/Upconversion Luminescence Properties. <i>Advanced Optical Materials</i> , 2015 , 3, 583-592	8.1	28
302	The oxidation behavior of Ti-6.5Al-1Nb at 900 °C. <i>Intermetallics</i> , 2007 , 15, 989-998	3.5	28
301	Ultrasensitive Mid-wavelength Infrared Photodetection Based on a Single InAs Nanowire. <i>ACS Nano</i> , 2019 , 13, 3492-3499	16.7	28
300	Importance of suppression of Yb(3+) de-excitation to upconversion enhancement in NaYF ₄ :Yb(3+)/Er(3+)@NaYF ₄ sandwiched structure nanocrystals. <i>Inorganic Chemistry</i> , 2015 , 54, 3921-8	5.1	27
299	Optical temperature sensing properties of KLu ₂ F ₇ : Yb ³⁺ /Er ³⁺ /Nd ³⁺ nanoparticles under NIR excitation. <i>Journal of Alloys and Compounds</i> , 2018 , 742, 497-503	5.7	27
298	Ni@NiO core/shell dendrites for ultra-long cycle life electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15049-15056	13	27
297	Shallow-terrace-like interface in dilute-bismuth GaSb/AlGaSb single quantum wells evidenced by photoluminescence. <i>Journal of Applied Physics</i> , 2013 , 113, 153505	2.5	27

296	Poly(1-adamantyl acrylate): Living Anionic Polymerization, Block Copolymerization, and Thermal Properties. <i>Macromolecules</i> , 2016 , 49, 9406-9414	5.5	27
295	Phase-Tunable Synthesis of Monodisperse YPO:Ln (Ln = Ce, Eu, Tb) Micro/Nanocrystals via Topotactic Transformation Route with Multicolor Luminescence Properties. <i>Inorganic Chemistry</i> , 2017 , 56, 6114-6121	5.1	26
294	SWCNT-MoS ₂ -SWCNT Vertical Point Heterostructures. <i>Advanced Materials</i> , 2017 , 29, 1604469	24	26
293	Emission Enhancement and Color Tuning for GdVO:Ln (Ln = Dy, Eu) by Surface Modification at Single Wavelength Excitation. <i>Inorganic Chemistry</i> , 2017 , 56, 282-291	5.1	26
292	Topotactic Transformation Route to Monodisperse NaYF ₄ :Ln(3+) Microcrystals with Luminescence Properties. <i>Inorganic Chemistry</i> , 2016 , 55, 1912-9	5.1	26
291	Orientation Dependence of Electromechanical Characteristics of Defect-free InAs Nanowires. <i>Nano Letters</i> , 2016 , 16, 1787-93	11.5	26
290	Morphology-controlled synthesis of self-assembled LiFePO ₄ /C/RGO for high-performance Li-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17556-63	9.5	26
289	19 μ m quantum cascade infrared photodetectors. <i>Applied Physics Letters</i> , 2013 , 102, 191120	3.4	26
288	An orange-emitting phosphor via the efficient Ce ³⁺ -Mn ²⁺ and Eu ²⁺ -Mn ²⁺ energy transfers in La _{9.33} (SiO ₄) ₆ O ₂ for UV or near-UV LEDs. <i>New Journal of Chemistry</i> , 2013 , 37, 3701	3.6	26
287	Optimal number of quantum wells for blue InGaN/GaN light-emitting diodes. <i>Applied Physics Letters</i> , 2012 , 100, 263504	3.4	26
286	Monodisperse YVO ₄ :Eu ³⁺ submicrocrystals: controlled synthesis and luminescence properties. <i>CrystEngComm</i> , 2013 , 15, 5776	3.3	26
285	(S)TEM study of different stages of Ti ₄₅ Al ₁₈ Nb _{0.2} W _{0.2} B _{0.02} Y alloy oxidation at 900 °C. <i>Corrosion Science</i> , 2008 , 50, 978-988	6.8	26
284	Enlargement of the nontransmission frequency range of multiple-channeled filters by the use of heterostructures. <i>Journal of Applied Physics</i> , 2004 , 95, 424-426	2.5	26
283	Structural and electronic properties of Sbn (n=2-10) clusters using density-functional theory. <i>Physical Review A</i> , 2005 , 72,	2.6	26
282	2D materials for conducting holes from grain boundaries in perovskite solar cells. <i>Light: Science and Applications</i> , 2021 , 10, 68	16.7	26
281	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
280	Phase and Facet Control of Molybdenum Carbide Nanosheet Observed by In Situ TEM. <i>Small</i> , 2017 , 13, 1700051	11	25
279	Metal/Ion Interactions Induced p-i-n Junction in Methylammonium Lead Triiodide Perovskite Single Crystals. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17285-17288	16.4	25

- 278 A new crystal: layer-structured rhombohedral In_3Se_4 . *CrystEngComm*, **2014**, 16, 393-398 3.3 25
- 277 Construction of pH-responsive and up-conversion luminescent $\text{NaYF}_4/\text{Er}^{3+}@\text{SiO}_2/\text{PMAA}$ nanocomposite for colon targeted drug delivery. *Scientific Reports*, **2016**, 6, 21335 4.9 25
- 276 Terahertz probe of photoexcited carrier dynamics in the Dirac semimetal Cd_3As_2 . *Physical Review B*, **2018**, 98, 3.3 25
- 275 Performance Optimization of InSb Infrared Focal-Plane Arrays with Diffractive Microlenses. *Journal of Electronic Materials*, **2014**, 43, 2795-2801 1.9 24
- 274 Significant enhancement in photocatalytic activity of high quality SiC/graphene core-shell heterojunction with optimal structural parameters. *RSC Advances*, **2014**, 4, 46771-46779 3.7 24
- 273 High-temperature long persistent and photo-stimulated luminescence in Tb^{3+} doped gallate phosphor. *Journal of Alloys and Compounds*, **2017**, 701, 774-779 5.7 23
- 272 Large-area and highly crystalline MoSe for optical modulator. *Nanotechnology*, **2017**, 28, 484001 3.4 23
- 271 Tunable multicolor and white luminescence in $\text{Tb}^{3+}/\text{Dy}^{3+}/\text{Mn}^{2+}$ doped CePO_4 via energy transfer. *Journal of Alloys and Compounds*, **2015**, 637, 489-496 5.7 23
- 270 Facile preparation of hierarchical TiO_2 nanowire-nanoparticle/nanotube architecture for highly efficient dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 20366-20374 13 23
- 269 All acrylic-based thermoplastic elastomers with high upper service temperature and superior mechanical properties. *Polymer Chemistry*, **2017**, 8, 5741-5748 4.9 23
- 268 Hybrid lanthanide nanoparticles as a new class of binary contrast agents for in vivo T₁/T₂ dual-weighted MRI and synergistic tumor diagnosis. *Journal of Materials Chemistry B*, **2016**, 4, 2715-2722 7.3 22
- 267 Direct observation of carbon nanostructure growth at liquid-solid interfaces. *Chemical Communications*, **2014**, 50, 826-8 5.8 22
- 266 Sub-10 nm BaLaF:Mn/Yb/Er nanoprobe for dual-modal synergistic in vivo upconversion luminescence and X-ray bioimaging. *Journal of Materials Chemistry B*, **2014**, 2, 6527-6533 7.3 22
- 265 Au impact on GaAs epitaxial growth on GaAs (111)B substrates in molecular beam epitaxy. *Applied Physics Letters*, **2013**, 102, 063106 3.4 22
- 264 Room temperature magnetic exchange coupling in multiferroic $\text{BaTiO}_3/\text{CoFe}_2\text{O}_4$ magnetoelectric superlattice. *Journal of Materials Science*, **2009**, 44, 5143-5148 4.3 22
- 263 Deformation-induced β -phase transformation in TiAl alloys. *Materials Characterization*, **2010**, 61, 1029-1034 3.4 22
- 262 Orientation relationship between TiB precipitate and β -TiAl phase. *Scripta Materialia*, **2007**, 56, 441-444 5.6 22
- 261 TEM investigation of the oxide scale of Ti-6.5Al-1Nb at 900 °C for 50 h. *Intermetallics*, **2007**, 15, 824-831 3.5 22

260	Broadband Achromatic Metalens in Mid-Wavelength Infrared. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2100020	8.3	22
259	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
258	Synthesis, luminescence and application of novel europium, cerium and terbium-doped apatite phosphors. <i>CrystEngComm</i> , 2019 , 21, 6226-6237	3.3	21
257	Atomic-Scale Mechanism on Nucleation and Growth of MoC Nanoparticles Revealed by in Situ Transmission Electron Microscopy. <i>Nano Letters</i> , 2016 , 16, 7875-7881	11.5	21
256	Ba ₂ GdF ₇ Nanocrystals: Solution-Based Synthesis, Growth Mechanism, and Luminescence Properties. <i>Crystal Growth and Design</i> , 2014 , 14, 1819-1826	3.5	21
255	Coherent fluorescence emission by using hybrid photonic-plasmonic crystals. <i>Laser and Photonics Reviews</i> , 2014 , 8, 717-725	8.3	21
254	The elastic properties of hexagonal osmium under pressure: The first-principles investigations. <i>Physica B: Condensed Matter</i> , 2009 , 404, 1218-1221	2.8	21
253	Cracks bring robustness: a pre-cracked NiO nanosponge electrode with greatly enhanced cycle stability and rate performance. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8211-8218	13	21
252	Large-area, lithography-free, narrow-band and highly directional thermal emitter. <i>Nanoscale</i> , 2019 , 11, 19742-19750	7.7	21
251	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
250	High dielectric tunability, electrostriction strain and electrocaloric strength at a tricritical point of tetragonal, rhombohedral and pseudocubic phases. <i>Journal of Alloys and Compounds</i> , 2015 , 646, 597-602	5.7	20
249	Effect of pH on the microstructure of βGaO and its enhanced photocatalytic activity for antibiotic degradation. <i>Journal of Colloid and Interface Science</i> , 2018 , 519, 255-262	9.3	20
248	Structural, electronic, and optical properties of hydrogenated few-layer silicene: Size and stacking effects. <i>Journal of Applied Physics</i> , 2013 , 114, 094308	2.5	20
247	Structure dependent quantum confinement effect in hydrogen-terminated nanodiamond clusters. <i>Journal of Applied Physics</i> , 2010 , 108, 094303	2.5	20
246	First-principles investigations on elastic properties of β and βTa ₄ AlC ₃ . <i>Solid State Communications</i> , 2009 , 149, 441-444	1.6	20
245	Controllable Doping in 2D Layered Materials. <i>Advanced Materials</i> , 2021 , 33, e2104942	24	20
244	Quality Control of GaAs Nanowire Structures by Limiting As Flux in Molecular Beam Epitaxy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 20721-20727	3.8	19
243	Novel synthesis and luminescence properties of t-LaVO ₄ :Eu ³⁺ micro cube. <i>CrystEngComm</i> , 2014 , 16, 152-158	3.3	19

- 242 Stable 4 V-class bicontinuous cathodes by hierarchically porous carbon coating on $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ nanospheres. *Nanoscale*, **2014**, 6, 12426-33 7.7 19
- 241 Theoretical prediction on the structural, electronic, and polarization properties of tetragonal $\text{Bi}_2\text{ZnTiO}_6$. *Journal of Applied Physics*, **2009**, 105, 053713 2.5 19
- 240 Ordered hierarchical porous platinum membranes with tailored mesostructures. *Angewandte Chemie - International Edition*, **2010**, 49, 10101-5 16.4 19
- 239 The microscopic origin of magnon-photon level attraction by traveling waves: Theory and experiment. *Physical Review B*, **2019**, 100, 3.3 19
- 238 Crystal-phase control of $\text{GaAs}/\text{GaAsSb}$ core-shell/axial nanowire heterostructures by a two-step growth method. *Journal of Materials Chemistry C*, **2018**, 6, 6726-6732 7.1 19
- 237 A new low-temperature solution route to Aurivillius-type layered oxyfluoride perovskites $\text{Bi}_2\text{MO}_5\text{F}$ ($\text{M} = \text{Nb}, \text{Ta}$) as photocatalysts. *Applied Catalysis B: Environmental*, **2017**, 205, 112-120 21.8 18
- 236 Realization of ultra-long columnar single crystals in TiO_2 nanotube arrays as fast electron transport channels for high efficiency dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 11520-11529 13.29 18
- 235 Color tuning and energy transfer in $\text{Eu}^{2+}/\text{Mn}^{2+}$ -doped $\text{Ba}_3\text{Y}(\text{PO}_4)_3$ eulytite-type orthophosphate phosphors. *RSC Advances*, **2015**, 5, 46517-46524 3.7 18
- 234 Morphological control of SnTe nanostructures by tuning catalyst composition. *Nano Research*, **2015**, 8, 3011-3019 10 18
- 233 Controlled synthesis, asymmetrical transport behavior and luminescence properties of lanthanide doped ZnO mushroom-like 3D hierarchical structures. *Nanoscale*, **2014**, 6, 13795-802 7.7 18
- 232 Realization of photorefectance spectroscopy in very-long wave infrared of up to 20 μm . *Applied Physics Letters*, **2009**, 95, 041908 3.4 18
- 231 Evolution of valence-band alignment with nitrogen content in GaNAs/GaAs single quantum wells. *Applied Physics Letters*, **2008**, 93, 031904 3.4 18
- 230 Photoluminescence, energy transfer and tunable color of $\text{Ce}(3+)$, $\text{Tb}(3+)$ and $\text{Eu}(2+)$ activated oxynitride phosphors with high brightness. *Dalton Transactions*, **2016**, 45, 9676-83 4.3 18
- 229 Observable Two-Step Nucleation Mechanism in Solid-State Formation of Tungsten Carbide. *ACS Nano*, **2019**, 13, 681-688 16.7 18
- 228 In Situ TEM Observation of Crystal Structure Transformation in InAs Nanowires on Atomic Scale. *Nano Letters*, **2018**, 18, 6597-6603 11.5 18
- 227 Prediction of half-semiconductor antiferromagnets with vanishing net magnetization. *RSC Advances*, **2015**, 5, 46640-46647 3.7 17
- 226 Design and Synthesis of Multigraft Copolymer Thermoplastic Elastomers: Superelastomers. *Macromolecular Chemistry and Physics*, **2018**, 219, 1700254 2.6 17
- 225 Color tuning and energy transfer investigation in $\text{Na}_2\text{Ca}_4\text{Mg}_2\text{Si}_4\text{O}_{15}:\text{Eu}^{2+}$, Mn^{2+} phosphor and its potential application for UV-excited UV-WLEDs. *RSC Advances*, **2014**, 4, 7588 3.7 17

224	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
223	Towards sensitive terahertz detection via thermoelectric manipulation using graphene transistors. <i>NPG Asia Materials</i> , 2018 , 10, 318-327	10.3	16
222	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
221	One-pot synthesis of PEG modified BaLuF ₃ Gd/Yb/Er nanoprobe for dual-modal in vivo upconversion luminescence and X-ray bioimaging. <i>Dalton Transactions</i> , 2014 , 43, 13343-8	4.3	16
220	Electronic, magnetic and dielectric properties of multiferroic MnTiO ₃ . <i>Journal of Materials Research</i> , 2012 , 27, 1421-1429	2.5	16
219	Tuning the detection wavelength of quantum-well infrared photodetectors by single high-energy implantation. <i>Applied Physics Letters</i> , 2001 , 78, 10-12	3.4	16
218	Reflective metalens with sub-diffraction-limited and multifunctional focusing. <i>Scientific Reports</i> , 2017 , 7, 12632	4.9	15
217	Large-Area Low-Cost Dielectric Perfect Absorber by One-Step Sputtering. <i>Advanced Optical Materials</i> , 2019 , 7, 1801596	8.1	15
216	Quantum dot single-photon switches of resonant tunneling current for discriminating-photon-number detection. <i>Scientific Reports</i> , 2015 , 5, 9389	4.9	15
215	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
214	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
213	Color tunable emission and energy transfer in Eu ²⁺ , Tb ³⁺ , or Mn ²⁺ -activated cordierite for near-UV white LEDs. <i>New Journal of Chemistry</i> , 2014 , 38, 2884	3.6	15
212	Relaxations and bonding mechanism in Hg _{1-x} CdxTe with mercury vacancy defect: First-principles study. <i>Physical Review B</i> , 2006 , 73,	3.3	15
211	Carrier dynamics in submonolayer InGaAs _{1-x} GaAs quantum dots. <i>Applied Physics Letters</i> , 2006 , 89, 013113	3.4	15
210	Synthesis of naked plasmonic/magnetic Au/FeO nanostructures by plasmon-driven anti-replacement reaction. <i>Nanotechnology</i> , 2019 , 30, 065605	3.4	15
209	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
208	Realization of multiphoton lasing from carbon nanodot microcavities. <i>Nanoscale</i> , 2017 , 9, 5957-5963	7.7	14
207	Indium segregation measured in InGaN quantum well layer. <i>Scientific Reports</i> , 2014 , 4, 6734	4.9	14

- 206 Sub-Wavelength Grating Enhanced Ultra-Narrow Graphene Perfect Absorber. *Plasmonics*, **2018**, 13, 2267-2272 14
- 205 Multifunctional NiTiO₃ nanocoating fabrication based on the dual-Kirkendall effect enabling a stable cathode/electrolyte interface for nickel-rich layered oxides. *Journal of Materials Chemistry A*, **2018**, 6, 2643-2652 13 14
- 204 Top-gated black phosphorus phototransistor for sensitive broadband detection. *Nanoscale*, **2018**, 10, 5852-5858 7.7 14
- 203 Regioselective alkyl transfer from phosphonium ylides to functionalized polyfluoroarenes. *Chemical Science*, **2014**, 5, 1934-1939 9.4 14
- 202 Luminescent single-crystal ZnO nanorods: Controlled synthesis through altering the solvents composition. *Materials Letters*, **2012**, 81, 229-231 3.3 14
- 201 Low threshold amplified spontaneous emission from tin oxide quantum dots: a instantiation of dipole transition silence semiconductors. *Nanoscale*, **2013**, 5, 11561-7 7.7 14
- 200 The resonant tunability, enhancement, and damping of plasma waves in the two-dimensional electron gas plasmonic crystals at terahertz frequencies. *Applied Physics Letters*, **2013**, 102, 243507 3.4 14
- 199 Quantitative determination of Eliashberg function and evidence of strong electron coupling with multiple phonon modes in heavily overdoped (Bi,Pb)2Sr2CuO6+ δ . *Physical Review B*, **2011**, 83, 3.3 14
- 198 Defect-free thin InAs nanowires grown using molecular beam epitaxy. *Nanoscale*, **2016**, 8, 1401-6 7.7 13
- 197 Controllable multicolor output, white luminescence and cathodoluminescence properties of high quality NaCeF₄:Ln³⁺ (Ln³⁺ = Eu³⁺, Dy³⁺, Tb³⁺) nanorods. *RSC Advances*, **2014**, 4, 49916-49923 3.7 13
- 196 Dendritic Y₄O(OH)₉NO₃:Eu³⁺/Y₂O₃:Eu³⁺ hierarchical structures: controlled synthesis, growth mechanism, and luminescence properties. *CrystEngComm*, **2013**, 15, 4844 3.3 13
- 195 Tailoring electronic properties of InAs nanowires by surface functionalization. *Journal of Applied Physics*, **2011**, 110, 103713 2.5 13
- 194 Electronic properties and chemical trends of the arsenic in situ impurities in Hg_{1-x}Cd_xTe: First-principles study. *Physical Review B*, **2007**, 76, 3.3 13
- 193 Enhanced Performance of HgCdTe Midwavelength Infrared Electron Avalanche Photodetectors With Guard Ring Designs. *IEEE Transactions on Electron Devices*, **2020**, 67, 542-546 2.9 13
- 192 Liquid-phase exfoliation of violet phosphorus for electronic applications. *SmartMat*, **2021**, 2, 226-233 22.8 13
- 191 Crystal structure, morphology and luminescent properties of rare earth ion-doped SrHPO₄ nanomaterials. *Journal of Rare Earths*, **2015**, 33, 355-360 3.7 12
- 190 Optical Waveguide of Buckled CdS Nanowires Modulated by Strain-Engineering. *ACS Photonics*, **2018**, 5, 746-751 6.3 12
- 189 All-acrylic superelastomers: facile synthesis and exceptional mechanical behavior. *Polymer Chemistry*, **2018**, 9, 160-168 4.9 12

- 188 Monodispersed LaF₃ nanocrystals: shape-controllable synthesis, excitation-power-dependent multi-color tuning and intense near-infrared upconversion emission. *Nanotechnology*, **2014**, 25, 065703 3.4 12
- 187 Coupling of localized surface plasmon modes in compound structure with metallic nanoparticle and nanohole arrays. *Journal of Applied Physics*, **2010**, 108, 093520 2.5 12
- 186 Effect of niobium on the oxidation behavior of TiAl. *Journal of Materials Research*, **2007**, 22, 1486-1490 2.5 12
- 185 Deformation-induced $\beta \rightarrow \alpha$ phase transformation in TiAl alloy compressed at room temperature. *Intermetallics*, **2007**, 15, 722-726 3.5 12
- 184 High-frequency rectifiers based on type-II Dirac fermions. *Nature Communications*, **2021**, 12, 1584 17.4 12
- 183 In situ synthesis of rice-like ZnGa₂O₄ for the photocatalytic removal of organic and inorganic pollutants. *Materials Science in Semiconductor Processing*, **2016**, 56, 251-259 4.3 12
- 182 High-responsivity and polarization-discriminating terahertz photodetector based on plasmonic resonance. *Applied Physics Letters*, **2019**, 114, 091105 3.4 11
- 181 Atomic-Scale Insights into the Dynamics of Growth and Degradation of All-Inorganic Perovskite Nanocrystals. *Journal of Physical Chemistry Letters*, **2020**, 11, 4618-4624 6.4 11
- 180 Nanoscale free-standing magnetoelectric heteropillars. *Nanoscale*, **2013**, 5, 6747-53 7.7 11
- 179 Two-step ion-exchange synthetic strategy for obtaining monodisperse NaYF₄:Ln³⁺ nanostructures with multicolor luminescence properties. *Journal of Materials Chemistry C*, **2015**, 3, 1091-1098 7.1 11
- 178 White-Emitting Tuning and Energy Transfer in Eu²⁺/Mn²⁺-Substituted Apatite-Type Fluorophosphate Phosphors. *Journal of the American Ceramic Society*, **2015**, 98, 1162-1168 3.8 11
- 177 Aligned TiO₂ nanotube/nanoparticle heterostructures with enhanced electrochemical performance as three-dimensional anode for lithium-ion microbatteries. *Nanotechnology*, **2014**, 25, 455401 3.4 11
- 176 Cucurbit[7]uril-Based Vesicles Formed by Self-assembly of Supramolecular Amphiphiles. *Chinese Journal of Chemistry*, **2012**, 30, 2085-2090 4.9 11
- 175 High-resolution image simulation of overlap structures in TiAl alloy. *Journal of Alloys and Compounds*, **2009**, 468, 179-186 5.7 11
- 174 Selective excitation of surface-polariton Bloch waves for efficient transmission of light through a subwavelength hole array in a thin metal film. *Physical Review B*, **2007**, 76, 3.3 11
- 173 Selected and Enhanced Single Whispering-Gallery Mode Emission from a Mesostructured Nanomembrane Microcavity. *Nano Letters*, **2018**, 18, 8035-8040 11.5 11
- 172 Influence of Plasmonic Effect on the Upconversion Emission Characteristics of NaYF₄ Hexagonal Microrods. *Inorganic Chemistry*, **2018**, 57, 8200-8204 5.1 11
- 171 Multi-Band Up-Converted Lasing Behavior in NaYF₄/Yb/Er Nanocrystals. *Nanomaterials*, **2018**, 8, 5.4 10

170	Synthesis, structure, and photoluminescence properties of novel KBaSc ₂ (PO ₄) ₃ :Ce(3+)/Eu(2+)/Tb(3+) phosphors for white-light-emitting diodes. <i>ChemPhysChem</i> , 2015 , 16, 2663-9	3.2	10
169	Analysis of Interface Scattering in AlGa _N /Ga _N /InGa _N /Ga _N Double-Heterojunction High-Electron-Mobility Transistors. <i>Journal of Electronic Materials</i> , 2012 , 41, 2130-2138	1.9	10
168	Electronic structure and chemical bonding of δ - and ϵ -Ta ₄ AlC ₃ phases: Full-potential calculation. <i>Journal of Materials Research</i> , 2008 , 23, 2350-2356	2.5	10
167	Phase transformation in the nitride layer during the oxidation of TiAl-based alloys. <i>Scripta Materialia</i> , 2007 , 56, 773-776	5.6	10
166	Microstructure of Oxide Scales Formed on Ti-48Al-8Cr-2Ag Alloy in Air at 900-1000°C. <i>Oxidation of Metals</i> , 2005 , 63, 229-239	1.6	10
165	Surface-States-Modulated High-Performance InAs Nanowire Phototransistor. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6413-6419	6.4	10
164	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
163	Hybrid Dirac semimetal-based photodetector with efficient low-energy photon harvesting.. <i>Light: Science and Applications</i> , 2022 , 11, 53	16.7	10
162	Single-crystal Bi ₂ Ga ₄ O ₉ nanoplates with exposed {110} facets for photocatalytic degradation of Acid Red 1. <i>Molecular Catalysis</i> , 2017 , 433, 354-362	3.3	9
161	Shape-controlled synthesis and facet-dependent performance of single-crystal Bi ₂₅ GaO ₃₉ photocatalysts. <i>CrystEngComm</i> , 2016 , 18, 7715-7721	3.3	9
160	Enhanced photocatalytic performance and morphology evolution of PbWO ₄ dendritic nanostructures through Eu ³⁺ doping. <i>RSC Advances</i> , 2016 , 6, 81447-81453	3.7	9
159	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
158	Facile large-scale synthesis of monodisperse RE ₃ (RE = Y, Ce, Nd, Sm-Lu) nano/microcrystals and luminescence properties. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 7666	7.1	9
157	Tunable phase and upconverting luminescence of Gd ³⁺ co-doped NaErF ₄ :Yb ³⁺ nanostructures. <i>Materials Research Bulletin</i> , 2017 , 95, 509-514	5.1	9
156	Upconversion: Simultaneous Realization of Phase/Size Manipulation, Upconversion Luminescence Enhancement, and Blood Vessel Imaging in Multifunctional Nanoprobes Through Transition Metal Mn ²⁺ Doping (Adv. Funct. Mater. 26/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 4196-4196	15.6	9
155	Identification of metal-cage coupling in a single metallofullerene by inelastic electron tunneling spectroscopy. <i>Applied Physics Letters</i> , 2010 , 96, 253110	3.4	9
154	Modulation mechanism of infrared photorefectance in narrow-gap HgCdTe epilayers: A pump power dependent study. <i>Journal of Applied Physics</i> , 2010 , 108, 023518	2.5	9
153	Direct observation and manipulation of hot electrons at room temperature. <i>National Science Review</i> , 2021 , 8, nwaa295	10.8	9

152	Nanoscale imaging of the photoresponse in PN junctions of InGaAs infrared detector. <i>Scientific Reports</i> , 2016 , 6, 21544	4.9	9
151	A novel transmission model for plasmon-induced transparency in plasmonic waveguide system with a single resonator. <i>RSC Advances</i> , 2016 , 6, 51480-51484	3.7	9
150	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
149	Phase purification of GaAs nanowires by prolonging the growth duration in MBE. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5257-5262	7.1	8
148	Nanofabrication of highly ordered, tunable metallic mesostructures via quasi-hard-templating of lyotropic liquid crystals. <i>Scientific Reports</i> , 2014 , 4, 7420	4.9	8
147	Sub-10nm lanthanide doped BaLuF ₅ nanocrystals: Shape controllable synthesis, tunable multicolor emission and enhanced near-infrared upconversion luminescence. <i>Materials Research Bulletin</i> , 2015 , 64, 27-32	5.1	8
146	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
145	Dark Mode Driven Extra-narrow and Multiband Absorber. <i>Plasmonics</i> , 2018 , 13, 729-735	2.4	8
144	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
143	Multicolor tuning towards single red-emission band of upconversion nanoparticles for tunable optical component and optical/x-ray imaging agents via Ce(3+) doping. <i>Nanotechnology</i> , 2015 , 26, 385702 ²⁴	3.4	8
142	Nanowires: Anomalous and Highly Efficient InAs Nanowire Phototransistors Based on Majority Carrier Transport at Room Temperature (Adv. Mater. 48/2014). <i>Advanced Materials</i> , 2014 , 26, 8232-8232 ²⁴		8
141	Spectrum Analysis of 2-D Plasmon in GaN-Based High Electron Mobility Transistors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 8400507-8400507	3.8	8
140	Optimization of Optoelectronic Plasmonic Structures. <i>Plasmonics</i> , 2011 , 6, 319-325	2.4	8
139	The mechanism of the photoresponse blueshifts for the n-type conversion region of n+-on-p Hg _{0.722} Cd _{0.278} Te infrared photodiode. <i>Journal of Applied Physics</i> , 2010 , 107, 044513	2.5	8
138	First-principles prediction of the hardness of fluorite TiO ₂ . <i>Physica B: Condensed Matter</i> , 2009 , 404, 79-81 ^{1.8}	1.8	8
137	High-quality epitaxial wurtzite structured InAs nanosheets grown in MBE. <i>Nanoscale</i> , 2020 , 12, 271-276	7.7	8
136	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
135	Angular dependence of optical modes in metal-insulator-metal coupled quantum well infrared photodetector. <i>AIP Advances</i> , 2016 , 6, 045205	1.5	8

- 134 Thin tungsten telluride layer preparation by thermal annealing. *Nanotechnology*, **2016**, 27, 414006 3.4 8
- 133 A Hierarchically Porous Hollow Structure of Layered Bi₂TiO₄F₂ for Efficient Photocatalysis. *European Journal of Inorganic Chemistry*, **2017**, 2017, 1892-1899 2.3 7
- 132 Circular Polarization Discrimination Enhanced by Anisotropic Media. *Advanced Optical Materials*, **2020**, 8, 1901800 8.1 7
- 131 Synthesis of dendritic-like BiVO₄:Ag heterostructure for enhanced and fast photocatalytic degradation of RhB solution. *Materials Research Bulletin*, **2016**, 84, 414-421 5.1 7
- 130 Syntheses, crystal structures and photoluminescence properties of Ca₉Y(PO₄)₅(SiO₄)F_{1.5}O_{0.25}:Ln³⁺ (Ln³⁺ = Eu³⁺/Tb³⁺/Dy³⁺/Sm³⁺) phosphors for near-UV white LEDs. *RSC Advances*, **2016**, 6, 92371-92377 3.7 7
- 129 Incorporating Tb³⁺ and Mn²⁺ into a high efficiency BaCa₂MgSi₂O₈:Eu²⁺ phosphor and its luminescent properties. *RSC Advances*, **2013**, 3, 20619 3.7 7
- 128 Thermodynamic phase diagram for hydrogen on polar InP(111)B surfaces. *Journal of Applied Physics*, **2010**, 107, 063516 2.5 7
- 127 First-principles study of deformation-induced phase transformations in Ti-Al intermetallics. *Journal of Materials Research*, **2009**, 24, 1662-1666 2.5 7
- 126 Development of an infrared detector: Quantum well infrared photodetector **2009**, 52, 969-977 7
- 125 Ordered Hierarchical Porous Platinum Membranes with Tailored Mesostructures. *Angewandte Chemie*, **2010**, 122, 10299-10303 3.6 7
- 124 Evolution of infrared photoreflectance lineshape with temperature in narrow-gap HgCdTe epilayers. *Applied Physics Letters*, **2008**, 93, 131914 3.4 7
- 123 Microscopic Origin of Electrical Compensation in Arsenic-Doped HgCdTe by Molecular Beam Epitaxy: Density Functional Study. *Journal of Electronic Materials*, **2007**, 36, 890-894 1.9 7
- 122 Study on Infrared Transmission Spectrum of Sildenafil Citrate Mixed in Traditional Chinese Medicine. *Journal of Infrared, Millimeter and Terahertz Waves*, **2003**, 24, 1177-1185 7
- 121 An Effective Approach for the Identification of Carrier Type and Local Inversion Doping in Graphene by Biased Atomic Force Microscopy. *Advanced Electronic Materials*, **2016**, 2, 1500255 6.4 7
- 120 Chain flexibility and glass transition temperatures of poly(n-alkyl (meth)acrylate)s: Implications of tacticity and chain dynamics. *Polymer*, **2021**, 213, 123207 3.9 7
- 119 Selected-Area Chemical Nanoengineering of Vanadium Dioxide Nanostructures Through Nonlithographic Direct Writing. *Advanced Materials Interfaces*, **2018**, 5, 1800974 4.6 7
- 118 Wide tunability and electron transfer in GaAs/AlGaAs quantum well photodetector by magnetic field. *Applied Physics Letters*, **2017**, 110, 192102 3.4 6
- 117 Au-catalysed free-standing wurtzite structured InAs nanosheets grown by molecular beam epitaxy. *Nano Research*, **2019**, 12, 2718-2722 10 6

116	In situ TEM observation of the vapor-solid-solid growth of InAs nanowires. <i>Nanoscale</i> , 2020 , 12, 11711-11717	17.1	6
115	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
114	Solution properties, unperturbed dimensions, and chain flexibility of poly(1-adamantyl acrylate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 1526-1531	2.6	6
113	Complete band gaps in three-dimensional quantum dot photonic crystals. <i>Physical Review B</i> , 2006 , 74,	3.3	6
112	Realization of Integrated Narrow Bandpass Filters in the Infrared Region. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2004 , 25, 1677-1683		6
111	Emission energy, exciton dynamics and lasing properties of buckled CdS nanoribbons. <i>Scientific Reports</i> , 2016 , 6, 26607	4.9	6
110	Band gap modulation in π -graphyne by p-n codoping. <i>Europhysics Letters</i> , 2016 , 115, 27009	1.6	6
109	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
108	Colossal Terahertz Photoresponse at Room Temperature: A Signature of Type-II Dirac Fermiology. <i>ACS Nano</i> , 2021 , 15, 5138-5146	16.7	6
107	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
106	Deep Ultraviolet Emission from Water-Soluble SnO ₂ Quantum Dots Grown via a Facile "Top-Down" Strategy. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 670-673	9.1	5
105	Controllable synergistic effect of Yb ³⁺ , Er ³⁺ co-doped KLu ₂ F ₇ with the assistant of defect state. <i>CrystEngComm</i> , 2016 , 18, 2642-2649	3.3	5
104	Free-Standing InAs Nanobelts Driven by Polarity in MBE. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44609-44616	9.5	5
103	Tumor Detection: Remarkable NIR Enhancement of Multifunctional Nanoprobes for In Vivo Trimodal Bioimaging and Upconversion Optical/T ₂ -Weighted MRI-Guided Small Tumor Diagnosis (Adv. Funct. Mater. 46/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 7102-7102	15.6	5
102	Photodetectors: Ultrasensitive and Broadband MoS ₂ Photodetector Driven by Ferroelectrics (Adv. Mater. 42/2015). <i>Advanced Materials</i> , 2015 , 27, 6538-6538	24	5
101	Aqueous Manganese Dioxide Ink for Paper-Based Capacitive Energy Storage Devices. <i>Angewandte Chemie</i> , 2015 , 127, 6904-6907	3.6	5
100	A Facile Synthesis and Optical Properties of Bundle-Shaped TbPO ₄ ·H ₂ O Nanorods. <i>Advances in Condensed Matter Physics</i> , 2013 , 2013, 1-5	1	5
99	Simulation for light power distribution of 3D InGa _N /Ga _N MQW LED with textured surface. <i>Optical and Quantum Electronics</i> , 2011 , 42, 739-745	2.4	5

98	Deformation-induced β - β' phase transformation occurring in the twin-intersection region of TiAl alloys. <i>Journal of Materials Research</i> , 2007 , 22, 2416-2422	2.5	5
97	First principle study on the bonding mechanism of nanoring structure Ga ₈ As ₈ . <i>European Physical Journal D</i> , 2005 , 34, 47-50	1.3	5
96	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
95	Strain-engineered room temperature cavity polariton in ZnO whispering gallery microcavity. <i>Applied Physics Letters</i> , 2020 , 116, 021104	3.4	5
94	Chirality-Assisted Aharonov-Bohm Geometric-Phase Metasurfaces for Spin-Decoupled Phase Modulation. <i>ACS Photonics</i> , 2021 , 8, 1847-1855	6.3	5
93	Ternary 2D Layered Material FePSe ₃ and Near-Infrared Photodetector. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100207	6.4	5
92	Tailoring Active Far-Infrared Resonator with Graphene Metasurface and Its Complementary. <i>Plasmonics</i> , 2017 , 12, 353-360	2.4	4
91	A visible high efficiency and polarization-insensitive 34-level dielectric metasurface hologram. <i>RSC Advances</i> , 2017 , 7, 26371-26376	3.7	4
90	Structure and photoluminescence studies on europium- and manganese-substituted eulytite-type orthophosphate phosphors. <i>New Journal of Chemistry</i> , 2015 , 39, 9951-9957	3.6	4
89	Crystal structures, tunable emission and energy transfer of a novel GdAl ₁₂ O ₁₈ N:Eu ²⁺ , Tb ³⁺ oxynitride phosphor. <i>New Journal of Chemistry</i> , 2016 , 40, 2637-2643	3.6	4
88	Study of Crystallization and Coalescence of Nanocrystals in Amorphous Glass at High Temperature. <i>Inorganic Chemistry</i> , 2019 , 58, 9500-9504	5.1	4
87	Facile hydrothermal synthesis and luminescent properties of Eu-doped CaF ₂ /F ₃ alkaline-earth ternary fluoride microspheres. <i>RSC Advances</i> , 2014 , 4, 35750	3.7	4
86	Raman mapping of laser-induced changes and ablation of InAs nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 115, 885-893	2.6	4
85	Fabrication and characterization of graphene derived from SiC. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013 , 56, 2386-2394	3.6	4
84	Catalytic effect and nucleation stability of Au on GaAs(111)B surface. <i>Journal of Applied Physics</i> , 2010 , 108, 013526	2.5	4
83	Studies on structures, electronic and magnetic properties of TM-doped In _n Sb _n (n=7, 12, 14, 16) clusters (TM=Mn, Fe, and Co). <i>Journal of Applied Physics</i> , 2011 , 109, 014322	2.5	4
82	Study on the p-type QWIP-LED device 2006 , 49, 401-410		4
81	Photonic Band Gap in Two-Dimensional Anisotropic Photonic Crystal with Rectangular Bars. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2003 , 24, 963-971		4

80	Recent Progress in Improving the Performance of Infrared Photodetectors via Optical Field Manipulations.. <i>Sensors</i> , 2022 , 22,	3.8	4
79	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
78	Quasiadiabatic electron transport in room temperature nanoelectronic devices induced by hot-phonon bottleneck. <i>Nature Communications</i> , 2021 , 12, 4752	17.4	4
77	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
76	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
75	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
74	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
73	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
72	Evolution of morphology and microstructure of GaAs/GaSb nanowire heterostructures. <i>Nanoscale Research Letters</i> , 2015 , 10, 108	5	3
71	Linear array of charge sensitive infrared phototransistors for long wavelength infrared detection. <i>Applied Physics Letters</i> , 2020 , 116, 233501	3.4	3
70	Growth Processes of LuF ₃ Upconversion Nanoflakes with the Assistance of Amorphous Nanoclusters. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5254-5259	5.6	3
69	Simulation of InGaN/GaN light-emitting diodes with a non-local quantum well transport model. <i>Optical and Quantum Electronics</i> , 2013 , 45, 597-604	2.4	3
68	Tysonite type Gd _{1-x} CayF _{3-x} solid solution: hydrothermal synthesis and luminescence properties. <i>CrystEngComm</i> , 2013 , 15, 9930	3.3	3
67	Au Nanoarrays: Surface Plasmon-Enhanced Photodetection in Few Layer MoS ₂ Phototransistors with Au Nanostructure Arrays (Small 20/2015). <i>Small</i> , 2015 , 11, 2346-2346	11	3
66	The enhanced optical coupling in a quantum well infrared photodetector based on a resonant mode of an airDielectricMetal waveguide. <i>Optical and Quantum Electronics</i> , 2015 , 47, 2347-2357	2.4	3
65	The enhanced infrared absorption of quantum well infrared photodetector based on a hybrid structure of periodic gold stripes overlaid with a gold film. <i>Optics Communications</i> , 2014 , 328, 91-95	2	3
64	Simulation of superconducting single photon detector coupled with metalInsulatorMetal concentric ring grating. <i>Optical and Quantum Electronics</i> , 2014 , 46, 1253-1259	2.4	3
63	First-principles investigations of the magnetic properties of graphite boron nitride sheet induced by Fe doping. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 205501	1.8	3

62	The theory and experiment of very-long-wavelength 256- μ m GaAs/Al _x Ga _{1-x} As quantum well infrared detector linear arrays 2008 , 51, 805-812		3
61	Deep UV random lasing from NaGdF:Yb,Tm upconversion nanocrystals in amorphous borosilicate glass. <i>Optics Letters</i> , 2020 , 45, 3095-3098	3	3
60	Ultralow Threshold, Single-Mode InGaAs/GaAs Multiquantum Disk Nanowire Lasers. <i>ACS Nano</i> , 2021 , 15, 9126-9133	16.7	3
59	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
58	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
57	Slowing Hot-Electron Relaxation in Mix-Phase Nanowires for Hot-Carrier Photovoltaics. <i>Nano Letters</i> , 2021 , 21, 7761-7768	11.5	3
56	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
55	Photodetectors: High-Responsivity Graphene/InAs Nanowire Heterojunction Near-Infrared Photodetectors with Distinct Photocurrent On/Off Ratios (Small 8/2015). <i>Small</i> , 2015 , 11, 890-890	11	2
54	Realizing single-mode lasing of cadmium selenide nanoribbons with strain engineering. <i>Applied Physics Letters</i> , 2020 , 116, 191104	3.4	2
53	InGaAsP/InP single photon avalanche diodes with ultra-high photon detection efficiency. <i>Optical and Quantum Electronics</i> , 2020 , 52, 1	2.4	2
52	Chemical potential effects on polytypism in Au-catalyzed GaAs nanowire molecular beam epitaxy growth: A first-principles study. <i>Chemical Physics Letters</i> , 2016 , 644, 147-151	2.5	2
51	Heterogeneous catalytic oxidation of pyridines to N-oxides under mild conditions using tungsten-loaded TiO ₂ . <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2016 , 119, 235-243	1.6	2
50	Measuring the carrier dynamics of photocatalyst micrograins using the Christiansen effect. <i>Journal of Chemical Physics</i> , 2017 , 146, 234202	3.9	2
49	Formation of Self-Connected SiGe Lateral Nanowires and Pyramids on Rib-Patterned Si(1 1 10) Substrate. <i>Nanoscale Research Letters</i> , 2017 , 12, 70	5	2
48	Surface Plasmon Resonance Enhanced Spontaneous Upconversion and Stimulated Emissions in Glass Ceramics Containing Ba ₂ LaF ₇ Nanocrystals. <i>Advances in Condensed Matter Physics</i> , 2017 , 2017, 1-6	1	2
47	Impact ionization in quantum well infrared photodetectors with different number of periods. <i>Journal of Applied Physics</i> , 2012 , 111, 034504	2.5	2
46	Orientation relationships between TiB (B27), B2, and Ti ₃ Al phases. <i>Journal of Materials Research</i> , 2009 , 24, 1688-1692	2.5	2
45	Optical property of amorphous semiconductor mercury cadmium telluride from first-principles study. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 1928-1932		2

44	TEM Study of the Initial Oxidation of Ti ₄₂ Al ₄₈ Cr ₈ Ag ₂ . <i>Oxidation of Metals</i> , 2007 , 68, 65-76	1.6	2
43	Aligned silicon carbide nanocrystals at the SiO ₂ /Si interface by C implantation into SiO ₂ matrices. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000 , 18, 2591	2.9	2
42	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
41	The mechanism and process of spontaneous boron doping in graphene in the theoretical perspective. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 3384-3388	2.3	2
40	Effect of microstructure on chain flexibility and glass transition temperature of polybenzofulvene. <i>Polymer</i> , 2021 , 212, 123276	3.9	2
39	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
38	Strong terahertz response in quantum well photodetector based on intradonor transition by magnetic field. <i>AIP Advances</i> , 2018 , 8, 125014	1.5	2
37	Anisotropic Hot-Electron Kinetics Revealed by Terahertz Fluctuation. <i>ACS Photonics</i> , 2021 , 8, 2674-2682	6.3	2
36	Advanced Thin Film Photo-Thermal Materials and Applications 2019 , 317-381		1
35	Thermoplastic Elastomers Based on Block, Graft, and Star Copolymers 2017 ,		1
34	Structural and Energetic Analysis of Group V Impurities in p-Type HgCdTe: The Case of As and Sb. <i>Journal of Electronic Materials</i> , 2014 , 43, 2849-2853	1.9	1
33	Interaction Between AsHg and V Hg in Arsenic-Doped Hg _{1-x} Cd _x Te. <i>Journal of Electronic Materials</i> , 2013 , 42, 3054-3058	1.9	1
32	Terahertz plasmon resonances in GaN and graphene 2013 ,		1
31	Low-Dimensional Semiconductor Structures for Optoelectronic Applications. <i>Advances in Condensed Matter Physics</i> , 2015 , 2015, 1-2	1	1
30	First principles study of half Heusler alloys PdFeBi and PdCoBi 2014 ,		1
29	Simulation of InGaN/GaN light-emitting diodes with a non-local quantum well transport model 2012 ,		1
28	Passive detection of polarization and relative phases for L-band microwaves 2013 ,		1
27	Post-Annealing Treatments and Interface Effects on Anomalous Magnetic Characteristics of HfO _x Film. <i>Integrated Ferroelectrics</i> , 2013 , 141, 145-153	0.8	1

26	TEM observations of twin intersections in a Ti ₄₇ Al ₄₂ Cr ₂ Nb _{0.1} Y alloy compressed at room temperature. <i>Journal of Alloys and Compounds</i> , 2008 , 454, 201-205	5.7	1
25	THERMAL RADIATION PROPERTY OF A THREE DIMENSIONAL PHOTONIC CRYSTAL BASED ON MULTIPLE SCATTERING METHOD. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2007 , 27, 425-434		1
24	Design of violet InGaN light-emitting diode with staggered quantum well structure. <i>Optoelectronics Letters</i> , 2008 , 4, 399-402	0.7	1
23	Dynamics of the damping oscillator formed by the collective generation of surface polaritons for extraordinary light transmission through subwavelength hole arrays in thin metal films. <i>Physical Review B</i> , 2007 , 76,	3.3	1
22	Coupled Tamm plasmon polaritons induced narrow bandpass filter with ultra-wide stopband. <i>Nano Research</i> , 1	10	1
21	Effect of defect state on photon synergistic process in KLu ₂ F ₇ :Yb ³⁺ , Er ³⁺ nanoparticles. <i>Journal of Solid State Chemistry</i> , 2016 , 242, 222-227	3.3	1
20	Dual-color charge-sensitive infrared phototransistors with dynamic optical gate. <i>Applied Physics Letters</i> , 2021 , 119, 103505	3.4	1
19	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
18	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
17	Photothermal Diatomite/Carbon Nanotube Combined Aerogel for High-Efficiency Solar Steam Generation and Wastewater Purification. <i>Solar Rrl</i> , 2101011	7.1	0
16	Anchored metallocene linear low-density polyethylene cellulose nanocrystal composites. <i>Polymer International</i> , 2021 , 70, 564-572	3.3	0
15	Photonic slide rule with metasurfaces.. <i>Light: Science and Applications</i> , 2022 , 11, 77	16.7	0
14	Self-frequency-conversion nanowire lasers.. <i>Light: Science and Applications</i> , 2022 , 11, 120	16.7	0
13	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	
12	Microwave-Induced DC Response of Spin Wave Resonance Driven by an Anisotropic Built-In Field in a Permalloy Thin Strip. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	
11	Introduction to the OQE special issue on numerical simulation of optoelectronic devices NUSOD12. <i>Optical and Quantum Electronics</i> , 2013 , 45, 571-571	2.4	
10	In-situ Observation of Cu Filaments Evolution in SiO ₂ layer. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1622-1623	16.23	
9	Introduction to the OQE special issue on Numerical Simulation of Optoelectronic Devices (NUSOD11). <i>Optical and Quantum Electronics</i> , 2012 , 44, 65-65	2.4	

- 8 Effect of TCA-depletion of extrinsic polypeptides on electron transport on oxidizing side of PS II. *Science Bulletin*, **1997**, 42, 227-231
- 7 Electron microscopy study of different stages of oxidation of Ti-47Al-2Nb-2Cr-0.15B and Ti-45Al-15Nb at 900 degrees C. *Journal of Microscopy*, **2008**, 231, 124-33 1.9
- 6 Free electron laser induced two-photon photoconductivity in Hg_{1-x}Cd_xTe. *Science in China Series A: Mathematics*, **2001**, 44, 1579-1584
- 5 Dispersion Curve of PbTiO₃ in Tetragonal and Cubic Phases. *Journal of Infrared, Millimeter and Terahertz Waves*, **2001**, 22, 469-476
- 4 Raman spectroscopy of single quantum well wires. *Science Bulletin*, **2000**, 45, 2138-2141
- 3 Remarkable optical coupling enhancement with laser selective focusing devices. *Optical and Quantum Electronics*, **2016**, 48, 1 2.4
- 2 Axiotaxy driven growth of belt-shaped InAs nanowires in molecular beam epitaxy. *Nano Research*, **2021**, 14, 2330 10
- 1 Multiple Modes Response of Co-Aperture 2D/1D Phototransistors. *Advanced Materials Interfaces*, 2102568 6