

Qiyuan He

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

20,893
citations

36303

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docs citations

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times ranked

27864
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Palladium-Catalyzed Site-Selective [5 + 1] Annulation of Aromatic Amides with Alkenes: Acceleration of β^2 -Hydride Elimination by Maleic Anhydride from Palladacycle. <i>ACS Catalysis</i> , 2022, 12, 1595-1600. | 11.2 | 5 |
| 2 | Reaction Path Determination of Rhodium(I)-Catalyzed C-H Alkylation of <i>N</i> -8-Aminoquinolinyl Aromatic Amides with Maleimides. <i>Journal of Organic Chemistry</i> , 2022, 87, 737-743. | 3.2 | 5 |
| 3 | Palladium-Catalyzed Site-Selective [3+2] Annulation via Benzylic and meta C-H Bond Activation. <i>Angewandte Chemie</i> , 2021, 133, 5249-5252. | 2.0 | 7 |
| 4 | Palladium-Catalyzed Site-Selective [3+2] Annulation via Benzylic and <i>meta</i> C-H Bond Activation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5189-5192. | 13.8 | 37 |
| 5 | Emerging elemental two-dimensional materials for energy applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18793-18817. | 10.3 | 30 |
| 6 | Metastable 1T α -phase group VIB transition metal dichalcogenide crystals. <i>Nature Materials</i> , 2021, 20, 1113-1120. | 27.5 | 119 |
| 7 | Engineering grain boundaries at the 2D limit for the hydrogen evolution reaction. <i>Nature Communications</i> , 2020, 11, 57. | 12.8 | 153 |
| 8 | <i>In-Situ</i> Probing of Crystal-Phase-Dependent Photocatalytic Activities of Au Nanostructures by Surface-Enhanced Raman Spectroscopy. , 2020, 2, 409-414. | | 22 |
| 9 | Phase engineering of nanomaterials. <i>Nature Reviews Chemistry</i> , 2020, 4, 243-256. | 30.2 | 438 |
| 10 | Sensitive pressure sensors based on conductive microstructured air-gap gates and two-dimensional semiconductor transistors. <i>Nature Electronics</i> , 2020, 3, 59-69. | 26.0 | 150 |
| 11 | On-chip electrocatalytic microdevice: an emerging platform for expanding the insight into electrochemical processes. <i>Chemical Society Reviews</i> , 2020, 49, 2916-2936. | 38.1 | 68 |
| 12 | Self-gating in semiconductor electrocatalysis. <i>Nature Materials</i> , 2019, 18, 1098-1104. | 27.5 | 167 |
| 13 | The Pd-catalyzed C-H alkylation of <i>ortho</i> -methyl-substituted aromatic amides with maleimide occurs preferentially at the <i>ortho</i> -methyl C-H bond over the <i>ortho</i> -C-H bond. <i>Chemical Communications</i> , 2019, 55, 9983-9986. | 4.1 | 34 |
| 14 | Unusual 4H-phase twinned noble metal nanokites. <i>Nature Communications</i> , 2019, 10, 2881. | 12.8 | 25 |
| 15 | Quest for p-Type Two-Dimensional Semiconductors. <i>ACS Nano</i> , 2019, 13, 12294-12300. | 14.6 | 72 |
| 16 | In Situ Probing Molecular Intercalation in Two-Dimensional Layered Semiconductors. <i>Nano Letters</i> , 2019, 19, 6819-6826. | 9.1 | 72 |
| 17 | A field-effect approach to directly profiling the localized states in monolayer MoS ₂ . <i>Science Bulletin</i> , 2019, 64, 1049-1055. | 9.0 | 5 |
| 18 | Strong Charge Transfer at 2H α -1T Phase Boundary of MoS ₂ for Superb High-Performance Energy Storage. <i>Small</i> , 2019, 15, e1900131. | 10.0 | 53 |

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|----|---|------|-----------|
| 19 | MOF-Based Hierarchical Structures for Solar-Driven Thermal Clean Water Production. <i>Advanced Materials</i> , 2019, 31, e1808249. | 21.0 | 233 |
| 20 | In-Plane Anisotropic Properties of $1T\text{-}x\text{-}2\text{-}MoS_2$ Layers. <i>Advanced Materials</i> , 2019, 31, e1807764. | 21.0 | 55 |
| 21 | Synthesis of PdM (M = Zn, Cd, ZnCd) Nanosheets with an Unconventional Face-Centered Tetragonal Phase as Highly Efficient Electrocatalysts for Ethanol Oxidation. <i>ACS Nano</i> , 2019, 13, 14329-14336. | 14.6 | 133 |
| 22 | Nanoscale patterning heats up. <i>Nature Electronics</i> , 2019, 2, 13-14. | 26.0 | 3 |
| 23 | Quantitative Surface Plasmon Interferometry via Upconversion Photoluminescence Mapping. <i>Research</i> , 2019, 2019, 8304824. | 5.7 | 2 |
| 24 | Monolayer atomic crystal molecular superlattices. <i>Nature</i> , 2018, 555, 231-236. | 27.8 | 323 |
| 25 | Transforming Monolayer Transition-Metal Dichalcogenide Nanosheets into One-Dimensional Nanoscrolls with High Photosensitivity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13011-13018. | 8.0 | 45 |
| 26 | High phase-purity $1T\text{-}x\text{-}2\text{-}MoS_2$ - and $1T\text{-}x\text{-}2\text{-}MoSe_2$ -layered crystals. <i>Nature Chemistry</i> , 2018, 10, 638-643. | 13.6 | 757 |
| 27 | A Synthesis of 3,4-Dihydroisoquinolin-1(2H)-one via the Rhodium-Catalyzed Alkylation of Aromatic Amides with N-Vinylphthalimide. <i>Journal of Organic Chemistry</i> , 2018, 83, 13587-13594. | 3.2 | 29 |
| 28 | 2D materials-wrapped microparticles. <i>Nature Materials</i> , 2018, 17, 956-957. | 27.5 | 1 |
| 29 | Realization of vertical metal semiconductor heterostructures via solution phase epitaxy. <i>Nature Communications</i> , 2018, 9, 3611. | 12.8 | 49 |
| 30 | Designing an Efficient Multimode Environmental Sensor Based on Graphene-Silicon Heterojunction. <i>Advanced Materials Technologies</i> , 2017, 2, 1600262. | 5.8 | 55 |
| 31 | Recent Advances in Cantilever-Free Scanning Probe Lithography: High-Throughput, Space-Confined Synthesis of Nanostructures and Beyond. <i>ACS Nano</i> , 2017, 11, 4381-4386. | 14.6 | 21 |
| 32 | Recent Advances in Ultrathin Two-Dimensional Nanomaterials. <i>Chemical Reviews</i> , 2017, 117, 6225-6331. | 47.7 | 3,940 |
| 33 | Solvent-Based Soft Patterning of Graphene Lateral Heterostructures for Broadband High-Speed Metal-Semiconductor-Metal Photodetectors. <i>Advanced Materials Technologies</i> , 2017, 2, 1600241. | 5.8 | 53 |
| 34 | Vertical Charge Transport and Negative Transconductance in Multilayer Molybdenum Disulfides. <i>Nano Letters</i> , 2017, 17, 5495-5501. | 9.1 | 42 |
| 35 | Two-dimensional nanomaterial-based field-effect transistors for chemical and biological sensing. <i>Chemical Society Reviews</i> , 2017, 46, 6872-6904. | 38.1 | 316 |
| 36 | Rh(I)-Catalyzed Alkylation of <i>ortho</i> -C-H Bonds in Aromatic Amides with Maleimides. <i>Organic Letters</i> , 2017, 19, 4544-4547. | 4.6 | 79 |

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|----|---|------|-----------|
| 37 | Highly Sensitive Chemical Detection with Tunable Sensitivity and Selectivity from Ultrathin Platinum Nanowires. <i>Small</i> , 2017, 13, 1602969. | 10.0 | 19 |
| 38 | The Effect of Thermal Annealing on Charge Transport in Organolead Halide Perovskite Microplate Field-Effect Transistors. <i>Advanced Materials</i> , 2017, 29, 1601959. | 21.0 | 91 |
| 39 | Pushing the Performance Limit of Sub-100 nm Molybdenum Disulfide Transistors. <i>Nano Letters</i> , 2016, 16, 6337-6342. | 9.1 | 117 |
| 40 | Scalable solution-phase epitaxial growth of symmetry-mismatched heterostructures on two-dimensional crystal soft template. <i>Science Advances</i> , 2016, 2, e1600993. | 10.3 | 52 |
| 41 | High-Current-Density Vertical Tunneling Transistors from Graphene/Highly Doped Silicon Heterostructures. <i>Advanced Materials</i> , 2016, 28, 4120-4125. | 21.0 | 43 |
| 42 | Plasmonic/Nonlinear Optical Material Core/Shell Nanorods as Nanoscale Plasmon Modulators and Optical Voltage Sensors. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 583-587. | 13.8 | 21 |
| 43 | van der Waals Heterojunction Devices Based on Organohalide Perovskites and Two-Dimensional Materials. <i>Nano Letters</i> , 2016, 16, 367-373. | 9.1 | 185 |
| 44 | Toward Barrier Free Contact to Molybdenum Disulfide Using Graphene Electrodes. <i>Nano Letters</i> , 2015, 15, 3030-3034. | 9.1 | 362 |
| 45 | Cosolvent Approach for Solution-Processable Electronic Thin Films. <i>ACS Nano</i> , 2015, 9, 4398-4405. | 14.6 | 63 |
| 46 | Wafer-scale growth of large arrays of perovskite microplate crystals for functional electronics and optoelectronics. <i>Science Advances</i> , 2015, 1, e1500613. | 10.3 | 265 |
| 47 | An on-chip electrical transport spectroscopy approach for in situ monitoring electrochemical interfaces. <i>Nature Communications</i> , 2015, 6, 7867. | 12.8 | 64 |
| 48 | TaS ₂ nanosheet-based room-temperature dosage meter for nitric oxide. <i>APL Materials</i> , 2014, 2, . | 5.1 | 16 |
| 49 | Graphene-Based Materials for Solar Cell Applications. <i>Advanced Energy Materials</i> , 2014, 4, 1300574. | 19.5 | 398 |
| 50 | Solution Processable Colloidal Nanoplates as Building Blocks for High-Performance Electronic Thin Films on Flexible Substrates. <i>Nano Letters</i> , 2014, 14, 6547-6553. | 9.1 | 69 |
| 51 | The mechanism of graphene oxide as a growth template for complete reduced graphene oxide coverage on an SiO ₂ substrate. <i>Journal of Materials Chemistry C</i> , 2014, 2, 109-114. | 5.5 | 16 |
| 52 | Graphene Oxide Architectures Prepared by Molecular Combing on Hydrophilic-Hydrophobic Micropatterns. <i>Small</i> , 2014, 10, 2239-2244. | 10.0 | 23 |
| 53 | Memory Devices Using a Mixture of MoS ₂ and Graphene Oxide as the Active Layer. <i>Small</i> , 2013, 9, 727-731. | 10.0 | 144 |
| 54 | Mechanical Exfoliation and Characterization of Single- and Few-Layer Nanosheets of WSe ₂ , TaS ₂ , and TaSe ₂ . <i>Small</i> , 2013, 9, 1974-1981. | 10.0 | 544 |

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|----|--|------|-----------|
| 55 | Graphene-Based Electrochemical Sensors. <i>Small</i> , 2013, 9, 1160-1172. | 10.0 | 526 |
| 56 | The extended growth of graphene oxide flakes using ethanol CVD. <i>Nanoscale</i> , 2013, 5, 2945. | 5.6 | 31 |
| 57 | Graphene Oxide Scrolls on Hydrophobic Substrates Fabricated by Molecular Combing and Their Application in Gas Sensing. <i>Small</i> , 2013, 9, 382-386. | 10.0 | 57 |
| 58 | Surface Modification of Smooth Poly(L-lactic acid) Films for Gelatin Immobilization. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 687-693. | 8.0 | 38 |
| 59 | Real-time DNA detection using Pt nanoparticle-decorated reduced graphene oxide field-effect transistors. <i>Nanoscale</i> , 2012, 4, 293-297. | 5.6 | 185 |
| 60 | Synthesis of Fe ₃ O ₄ and Pt nanoparticles on reduced graphene oxide and their use as a recyclable catalyst. <i>Nanoscale</i> , 2012, 4, 2478. | 5.6 | 131 |
| 61 | Fabrication of Single- and Multilayer MoS ₂ Film-Based Field-Effect Transistors for Sensing NO at Room Temperature. <i>Small</i> , 2012, 8, 63-67. | 10.0 | 1,346 |
| 62 | Optical Identification of Single- and Few-Layer MoS ₂ Sheets. <i>Small</i> , 2012, 8, 682-686. | 10.0 | 290 |
| 63 | Fabrication of Flexible MoS ₂ Thin-Film Transistor Arrays for Practical Gas Sensing Applications. <i>Small</i> , 2012, 8, 2994-2999. | 10.0 | 817 |
| 64 | Electrochemically Reduced Single-Layer MoS ₂ Nanosheets: Characterization, Properties, and Sensing Applications. <i>Small</i> , 2012, 8, 2264-2270. | 10.0 | 373 |
| 65 | Graphene-based electronic sensors. <i>Chemical Science</i> , 2012, 3, 1764. | 7.4 | 663 |
| 66 | Electrochemical deposition of Cl-doped n-type Cu ₂ O on reduced graphene oxide electrodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 3467-3470. | 6.7 | 91 |
| 67 | Nucleation Mechanism of Electrochemical Deposition of Cu on Reduced Graphene Oxide Electrodes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15973-15979. | 3.1 | 50 |
| 68 | Electrical Detection of Metal Ions Using Field-Effect Transistors Based on Micropatterned Reduced Graphene Oxide Films. <i>ACS Nano</i> , 2011, 5, 1990-1994. | 14.6 | 279 |
| 69 | Single-layer graphene oxide sheet: a novel substrate for dip-pen nanolithography. <i>Chemical Communications</i> , 2011, 47, 10070. | 4.1 | 16 |
| 70 | Transparent, Flexible, All-Reduced Graphene Oxide Thin Film Transistors. <i>ACS Nano</i> , 2011, 5, 5038-5044. | 14.6 | 305 |
| 71 | Nanoscale-Controlled Enzymatic Degradation of Poly(L-lactic acid) Films Using Dip-Pen Nanolithography. <i>Small</i> , 2011, 7, 226-229. | 10.0 | 24 |
| 72 | Graphene-Based Materials: Synthesis, Characterization, Properties, and Applications. <i>Small</i> , 2011, 7, 1876-1902. | 10.0 | 2,239 |

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|----|---|------|-----------|
| 73 | Graphene Oxide as a Carbon Source for Controlled Growth of Carbon Nanowires. <i>Small</i> , 2011, 7, 1199-1202. | 10.0 | 75 |
| 74 | Single-Layer Semiconducting Nanosheets: High-Yield Preparation and Device Fabrication. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11093-11097. | 13.8 | 1,517 |
| 75 | Reduced graphene oxide films used as matrix of MALDI-TOF-MS for detection of octachlorodibenzo-p-dioxin. <i>Chemical Communications</i> , 2010, 46, 6974. | 4.1 | 124 |
| 76 | Generation of Dual Patterns of Metal Oxide Nanomaterials Based on Seed-Mediated Selective Growth. <i>Langmuir</i> , 2010, 26, 4616-4619. | 3.5 | 12 |
| 77 | Centimeter-Long and Large-Scale Micropatterns of Reduced Graphene Oxide Films: Fabrication and Sensing Applications. <i>ACS Nano</i> , 2010, 4, 3201-3208. | 14.6 | 571 |
| 78 | Electrochemical Deposition of Semiconductor Oxides on Reduced Graphene Oxide-Based Flexible, Transparent, and Conductive Electrodes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 11816-11821. | 3.1 | 159 |
| 79 | Organic Photovoltaic Devices Using Highly Flexible Reduced Graphene Oxide Films as Transparent Electrodes. <i>ACS Nano</i> , 2010, 4, 5263-5268. | 14.6 | 566 |
| 80 | Interfacing Live Cells with Nanocarbon Substrates. <i>Langmuir</i> , 2010, 26, 2244-2247. | 3.5 | 301 |
| 81 | Surface immobilized cholera toxin B subunit (CTB) facilitates vesicle docking, trafficking and exocytosis. <i>Integrative Biology (United Kingdom)</i> , 2010, 2, 250. | 1.3 | 12 |
| 82 | Fabrication of Bio- and Nanopatterns by Dip Pen Nanolithography. , 2010, , 187-204. | | 0 |