

Zhongfan Liu

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/265012/zhongfan-liu-publications-by-year.pdf>

Version: 2024-04-28

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.

691
papers

45,387
citations

113
h-index

183
g-index

758
ext. papers

52,216
ext. citations

11.6
avg, IF

7.77
L-index

#	Paper	IF	Citations
691	High-Performance 3D Vertically Oriented Graphene Photodetector Using a Floating Indium Tin Oxide Channel.. <i>Sensors</i> , 2022 , 22,	3.8	1
690	Graphdiyne/Graphene/Graphdiyne Sandwiched Carbonaceous Anode for Potassium-Ion Batteries.. <i>ACS Nano</i> , 2022 ,	16.7	11
689	Dual-Emitter Graphene Glass Fiber Fabric for Radiant Heating.. <i>ACS Nano</i> , 2022 ,	16.7	7
688	Intrinsic Wettability in Pristine Graphene (Adv. Mater. 6/2022). <i>Advanced Materials</i> , 2022 , 34, 2270050	24	0
687	Direct insight into sulphilicity-lithiophilicity design of bifunctional heteroatom-doped graphene mediator toward durable Li-S batteries. <i>Journal of Energy Chemistry</i> , 2022 , 66, 474-482	12	7
686	Controllable Growth of Graphene Photonic Crystal Fibers with Tunable Optical Nonlinearity. <i>ACS Photonics</i> , 2022 , 9, 961-968	6.3	0
685	Vertical Graphene-Reinforced Titanium Alloy Bipolar Plates in Fuel Cells.. <i>Advanced Materials</i> , 2022 , e2110565	24	2
684	Graphene-driving strain engineering to enable strain-free epitaxy of AlN film for deep ultraviolet light-emitting diode.. <i>Light: Science and Applications</i> , 2022 , 11, 88	16.7	3
683	Slip-line-guided Growth of Graphene.. <i>Advanced Materials</i> , 2022 , e2201188	24	1
682	Anode-Free Potassium Metal Battery Enabled by Directly Grown Graphene Modulated Aluminum Current Collector.. <i>Advanced Materials</i> , 2022 , e2202902	24	3
681	Hydrophilic, Clean Graphene for Cell Culture and Cryo-EM Imaging. <i>Nano Letters</i> , 2021 , 21, 9587-9593	11.5	1
680	Carbon nanomaterials for highly stable Zn anode: Recent progress and future outlook. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 904, 115883	4.1	3
679	Intrinsic Wettability in Pristine Graphene. <i>Advanced Materials</i> , 2021 , e2103620	24	9
678	Direct growth of wafer-scale highly oriented graphene on sapphire. <i>Science Advances</i> , 2021 , 7, eabk011514.3	14.3	5
677	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2021 , 2108017-0	3.8	69
676	Transfer-Enabled Fabrication of Graphene Wrinkle Arrays for Epitaxial Growth of AlN Films. <i>Advanced Materials</i> , 2021 , e2105851	24	2
675	Toward the commercialization of chemical vapor deposition graphene films. <i>Applied Physics Reviews</i> , 2021 , 8, 041306	17.3	2

674	Graphene-Nanorod Enhanced Quasi-Van Der Waals Epitaxy for High Indium Composition Nitride Films. <i>Small</i> , 2021 , 17, e2100098	11	7
673	The Mechanism of Graphene Vapor-Solid Growth on Insulating Substrates. <i>ACS Nano</i> , 2021 , 15, 7399-7406	16.7	8
672	Metallic Transition Metal Dichalcogenides of Group VIB: Preparation, Stabilization, and Energy Applications. <i>Small</i> , 2021 , 17, e2005573	11	6
671	Graphene Transfer: Paving the Road for Applications of Chemical Vapor Deposition Graphene. <i>Small</i> , 2021 , 17, e2007600	11	15
670	A Robust Ternary Heterostructured Electrocatalyst with Conformal Graphene Chainmail for Expediting Bi-Directional Sulfur Redox in LiS Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2100586	15.6	20
669	Chemical Vapor Deposition Synthesis of Graphene over Sapphire Substrates. <i>ChemNanoMat</i> , 2021 , 7, 515	3.5	5
668	Hetero-site nucleation for growing twisted bilayer graphene with a wide range of twist angles. <i>Nature Communications</i> , 2021 , 12, 2391	17.4	31
667	Defect Engineering for Expediting LiS Chemistry: Strategies, Mechanisms, and Perspectives. <i>Advanced Energy Materials</i> , 2021 , 11, 2100332	21.8	52
666	Tunable Pore Size from Sub-Nanometer to a Few Nanometers in Large-Area Graphene Nanoporous Atomically Thin Membranes. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	2
665	Theoretical calculation boosting the chemical vapor deposition growth of graphene film. <i>APL Materials</i> , 2021 , 9, 060906	5.7	0
664	Hot-Carrier Cooling in High-Quality Graphene Is Intrinsically Limited by Optical Phonons. <i>ACS Nano</i> , 2021 ,	16.7	8
663	Wax-Transferred Hydrophobic CVD Graphene Enables Water-Resistant and Dendrite-Free Lithium Anode toward Long Cycle Li-Air Battery. <i>Advanced Science</i> , 2021 , 8, e2100488	13.6	7
662	Harmonized edge/graphitic-nitrogen doped carbon nanopolyhedron@nanosheet composite via salt-confined strategy for advanced K-ion hybrid capacitors. <i>Information Materials</i> , 2021 , 3, 891-903	23.1	7
661	Controllable Synthesis of Wafer-Scale Graphene Films: Challenges, Status, and Perspectives. <i>Small</i> , 2021 , 17, e2008017	11	11
660	Preparation of single-crystal metal substrates for the growth of high-quality two-dimensional materials. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 182-200	6.8	7
659	Oxygen-assisted direct growth of large-domain and high-quality graphene on glass targeting advanced optical filter applications. <i>Nano Research</i> , 2021 , 14, 260-267	10	10
658	Precise synthesis of N-doped graphitic carbon via chemical vapor deposition to unravel the dopant functions on potassium storage toward practical K-ion batteries. <i>Nano Research</i> , 2021 , 14, 1413-1420	10	20
657	Enhanced Hemocompatibility of a Direct Chemical Vapor Deposition-Derived Graphene Film. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4835-4843	9.5	2

656	Structure-induced partial phase transformation endows hollow TiO ₂ /TiN heterostructure fibers stacked with nanosheet arrays with extraordinary sodium storage performance. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 12109-12118	13	7
655	Chemical vapour deposition. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		80
654	Decimeter-Scale Atomically Thin Graphene Membranes for Gas-Liquid Separation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10328-10335	9.5	4
653	Synchronous Promotion in Sodiophilicity and Conductivity of Flexible Host via Vertical Graphene Cultivator for Longevous Sodium Metal Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2101233	15.6	10
652	Van der Waals epitaxy of nearly single-crystalline nitride films on amorphous graphene-glass wafer. <i>Science Advances</i> , 2021 , 7,	14.3	12
651	Universal interface and defect engineering dual-strategy for graphene-oxide heterostructures toward promoted LiS chemistry. <i>Chemical Engineering Journal</i> , 2021 , 418, 129407	14.7	9
650	Flow characteristics of low pressure chemical vapor deposition in the micro-channel. <i>Physics of Fluids</i> , 2021 , 33, 082012	4.4	1
649	Identifying the Evolution of Selenium-Vacancy-Modulated MoSe Precatalyst in Lithium-Sulfur Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24558-24565	16.4	21
648	Designing New-Generation Piezoelectric Transducers by Embedding Superior Graphene-Based Thermal Regulators. <i>Advanced Materials</i> , 2021 , 33, e2103141	24	2
647	Manipulating Electrocatalytic Li S Redox via Selective Dual-Defect Engineering for Li-S Batteries. <i>Advanced Materials</i> , 2021 , 33, e2103050	24	34
646	Optical detection of the susceptibility tensor in two-dimensional crystals. <i>Communications Physics</i> , 2021 , 4,	5.4	7
645	Concurrent realization of dendrite-free anode and high-loading cathode via 3D printed N-Ti ₃ C ₂ MXene framework toward advanced LiS full batteries. <i>Energy Storage Materials</i> , 2021 , 41, 141-151	19.4	22
644	Toward Epitaxial Growth of Misorientation-Free Graphene on Cu(111) Foils.. <i>ACS Nano</i> , 2021 ,	16.7	4
643	Freestanding Graphene Fabric Film for Flexible Infrared Camouflage.. <i>Advanced Science</i> , 2021 , e2105004	13.6	5
642	Universal Crafted MO-MXene Heterostructures as Heavy and Multifunctional Hosts for 3D-Printed Li-S Batteries. <i>ACS Nano</i> , 2020 , 14, 16073-16084	16.7	31
641	Tunable wideband slot antennas based on printable graphene inks. <i>Nanoscale</i> , 2020 , 12, 10949-10955	7.7	4
640	Lithium-Ion Batteries: Highly-Safe and Ultra-Stable All-Flexible Gel Polymer Lithium Ion Batteries Aiming for Scalable Applications (Adv. Energy Mater. 21/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070095	21.8	
639	Enhancing the Heat-Dissipation Efficiency in Ultrasonic Transducers via Embedding Vertically Oriented Graphene-Based Porcelain Radiators. <i>Nano Letters</i> , 2020 , 20, 5097-5105	11.5	11

638	Superclean Growth of Graphene Using a Cold-Wall Chemical Vapor Deposition Approach. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17214-17218	16.4	16
637	Sandwiched graphene/hBN/graphene photonic crystal fibers with high electro-optical modulation depth and speed. <i>Nanoscale</i> , 2020 , 12, 14472-14478	7.7	8
636	Superclean Growth of Graphene Using a Cold-Wall Chemical Vapor Deposition Approach. <i>Angewandte Chemie</i> , 2020 , 132, 17367-17371	3.6	1
635	Temperature-Mediated Engineering of Graphdiyne Framework Enabling High-Performance Potassium Storage. <i>Advanced Functional Materials</i> , 2020 , 30, 2003039	15.6	35
634	Direct Growth of Nanopatterned Graphene on Sapphire and Its Application in Light Emitting Diodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2001483	15.6	15
633	Large Single-Crystal Cu Foils with High-Index Facets by Strain-Engineered Anomalous Grain Growth. <i>Advanced Materials</i> , 2020 , 32, e2002034	24	28
632	Enhanced Kinetics Harvested in Heteroatom Dual-Doped Graphitic Hollow Architectures toward High Rate Printable Potassium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2001161	21.8	91
631	Realization and transport investigation of a single layer-twisted bilayer graphene junction. <i>Carbon</i> , 2020 , 163, 105-112	10.4	2
630	Direct Growth of Graphene over Insulators by Gaseous-Promotor-Assisted CVD: Progress and Prospects. <i>ChemNanoMat</i> , 2020 , 6, 483-492	3.5	3
629	Quasi-2D Growth of Aluminum Nitride Film on Graphene for Boosting Deep Ultraviolet Light-Emitting Diodes. <i>Advanced Science</i> , 2020 , 7, 2001272	13.6	18
628	Directly Grown Vertical Graphene Carpets as Janus Separators toward Stabilized Zn Metal Anodes. <i>Advanced Materials</i> , 2020 , 32, e2003425	24	106
627	Quantitative Analyses of the Interfacial Properties of Current Collectors at the Mesoscopic Level in Lithium Ion Batteries by Using Hierarchical Graphene. <i>Nano Letters</i> , 2020 , 20, 2175-2182	11.5	12
626	Natural Biopolymers for Flexible Sensing and Energy Devices. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020 , 38, 459-490	3.5	41
625	Ethanol-Precursor-Mediated Growth and Thermo-chromic Applications of Highly Conductive Vertically Oriented Graphene on Soda-Lime Glass. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11972-11978	7.5	14
624	Substrate Developments for the Chemical Vapor Deposition Synthesis of Graphene. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1902024	4.6	17
623	Utilization of Synergistic Effect of Dimension-Differentiated Hierarchical Nanomaterials for Transparent and Flexible Wireless Communicational Elements. <i>Advanced Materials Technologies</i> , 2020 , 5, 1901057	6.8	2
622	MOF-derived hierarchical CoP nanoflakes anchored on vertically erected graphene scaffolds as self-supported and flexible hosts for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3027-3034	13	58
621	In Situ N-Doped Graphene and Mo Nanoribbon Formation from Mo Ti C MXene Monolayers. <i>Small</i> , 2020 , 16, e1907115	11	6

620	Rational design of porous nitrogen-doped Ti3C2 MXene as a multifunctional electrocatalyst for LiB chemistry. <i>Nano Energy</i> , 2020 , 70, 104555	17.1	101
619	Transport signatures of relativistic quantum scars in a graphene cavity. <i>Physical Review B</i> , 2020 , 101,	3.3	2
618	Recent advances in the template-confined synthesis of two-dimensional materials for aqueous energy storage devices. <i>Nanoscale Advances</i> , 2020 , 2, 2220-2233	5.1	9
617	Batch synthesis of transfer-free graphene with wafer-scale uniformity. <i>Nano Research</i> , 2020 , 13, 1564-1570	17.0	13
616	Epitaxial Growth of Centimeter-Scale Single-Crystal MoS Monolayer on Au(111). <i>ACS Nano</i> , 2020 , 14, 5036-5045	16.7	107
615	Graphene-Based LED: from Principle to Devices. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2020 , 36, 1907004-0	3.8	4
614	Chemical Vapor Deposition Method for Graphene Fiber Materials. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2020 , 2006046-0	3.8	5
613	Graphene Fibers: Preparation, Properties, and Applications. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2020 , 2007093-0	3.8	2
612	Roles of Transition Metal Substrates in Graphene Chemical Vapor Deposition Growth. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2020 , 2012006-0	3.8	2
611	Micro-nano hybrid-structured conductive film with ultrawide range pressure-sensitivity and bioelectrical acquirability for ubiquitous wearable applications. <i>Applied Materials Today</i> , 2020 , 20, 100651	6.6	5
610	Expediting the electrochemical kinetics of 3D-printed sulfur cathodes for LiB batteries with high rate capability and areal capacity. <i>Nano Energy</i> , 2020 , 75, 104970	17.1	25
609	Designing 3D Biomorphic Nitrogen-Doped MoSe2/Graphene Composites toward High-Performance Potassium-Ion Capacitors. <i>Advanced Functional Materials</i> , 2020 , 30, 1903878	15.6	114
608	Understanding Interlayer Contact Conductance in Twisted Bilayer Graphene. <i>Small</i> , 2020 , 16, e1902844	11	13
607	H ₂ O-Etchant-Promoted Synthesis of High-Quality Graphene on Glass and Its Application in See-Through Thermochromic Displays. <i>Small</i> , 2020 , 16, e1905485	11	14
606	MOF-derived conductive carbon nitrides for separator-modified LiB batteries and flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1757-1766	13	73
605	3D Printing of NiCoP/TiC MXene Architectures for Energy Storage Devices with High Areal and Volumetric Energy Density. <i>Nano-Micro Letters</i> , 2020 , 12, 143	19.5	36
604	Rational Design of Binary Alloys for Catalytic Growth of Graphene via Chemical Vapor Deposition. <i>Catalysts</i> , 2020 , 10, 1305	4	4
603	3D Printing of a V C -VO Bifunctional Scaffold as an Effective Polysulfide Immobilizer and Lithium Stabilizer for Li-S Batteries. <i>Advanced Materials</i> , 2020 , 32, e2005967	24	60

602	Highly Conductive Nitrogen-Doped Vertically Oriented Graphene toward Versatile Electrode-Related Applications. <i>ACS Nano</i> , 2020 , 14, 15327-15335	16.7	13
601	Growth of Ultraflat Graphene with Greatly Enhanced Mechanical Properties. <i>Nano Letters</i> , 2020 , 20, 6798-6806	15.6	65
600	Nanopatterned Graphene: Direct Growth of Nanopatterned Graphene on Sapphire and Its Application in Light Emitting Diodes (Adv. Funct. Mater. 31/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070209	15.6	1
599	Defective VSe-Graphene Heterostructures Enabling Electrocatalyst Evolution for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2020 , 14, 11929-11938	16.7	61
598	Optical fibres with embedded two-dimensional materials for ultrahigh nonlinearity. <i>Nature Nanotechnology</i> , 2020 , 15, 987-991	28.7	37
597	New Growth Frontier: Superclean Graphene. <i>ACS Nano</i> , 2020 , 14, 10796-10803	16.7	19
596	High-Performance LiO ₂ Batteries Based on All-Graphene Backbone. <i>Advanced Functional Materials</i> , 2020 , 30, 2007218	15.6	14
595	High elastic moduli, controllable bandgap and extraordinary carrier mobility in single-layer diamond. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13819-13826	7.1	10
594	Bio-templated formation of defect-abundant VS ₂ as a bifunctional material toward high-performance hydrogen evolution reactions and lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020 , 42, 34-42	12	56
593	Controlled Growth of Single-Crystal Graphene Films. <i>Advanced Materials</i> , 2020 , 32, e1903266	24	58
592	Rationalizing Electrocatalysis of LiB Chemistry by Mediator Design: Progress and Prospects. <i>Advanced Energy Materials</i> , 2020 , 10, 1901075	21.8	184
591	Highly-Safe and Ultra-Stable All-Flexible Gel Polymer Lithium Ion Batteries Aiming for Scalable Applications. <i>Advanced Energy Materials</i> , 2020 , 10, 1904281	21.8	28
590	Massive Growth of Graphene Quartz Fiber as a Multifunctional Electrode. <i>ACS Nano</i> , 2020 , 14, 5938-5945	16.7	20
589	A Force-Engineered Lint Roller for Superclean Graphene. <i>Advanced Materials</i> , 2019 , 31, e1902978	24	31
588	Superhydrophilic Graphdiyne Accelerates Interfacial Mass/Electron Transportation to Boost Electrocatalytic and Photoelectrocatalytic Water Oxidation Activity. <i>Advanced Functional Materials</i> , 2019 , 29, 1808079	15.6	68
587	Direct synthesis of flexible graphene glass with macroscopic uniformity enabled by copper-foam-assisted PECVD. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4813-4822	13	24
586	Electron-Driven In Situ Transmission Electron Microscopy of 2D Transition Metal Dichalcogenides and Their 2D Heterostructures. <i>ACS Nano</i> , 2019 , 13, 978-995	16.7	42
585	Carbon-Nanomaterial-Based Flexible Batteries for Wearable Electronics. <i>Advanced Materials</i> , 2019 , 31, e1800716	24	144

584	Growth of 12-inch uniform monolayer graphene film on molten glass and its application in PbI ₂ -based photodetector. <i>Nano Research</i> , 2019 , 12, 1888-1893	10	6
583	Enhancement of Heat Dissipation in Ultraviolet Light-Emitting Diodes by a Vertically Oriented Graphene Nanowall Buffer Layer. <i>Advanced Materials</i> , 2019 , 31, e1901624	24	51
582	Scalable Salt-Templated Synthesis of Nitrogen-Doped Graphene Nanosheets toward Printable Energy Storage. <i>ACS Nano</i> , 2019 , 13, 7517-7526	16.7	60
581	Synthesis challenges for graphene industry. <i>Nature Materials</i> , 2019 , 18, 520-524	27	217
580	Towards super-clean graphene. <i>Nature Communications</i> , 2019 , 10, 1912	17.4	89
579	Copper-Containing Carbon Feedstock for Growing Superclean Graphene. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7670-7674	16.4	30
578	Direct chemical vapor deposition synthesis of large area single-layer brominated graphene.. <i>RSC Advances</i> , 2019 , 9, 13527-13532	3.7	7
577	Transfer-Medium-Free Nanofiber-Reinforced Graphene Film and Applications in Wearable Transparent Pressure Sensors. <i>ACS Nano</i> , 2019 , 13, 5541-5548	16.7	55
576	Superhydrophilic Graphdiyne: Superhydrophilic Graphdiyne Accelerates Interfacial Mass/Electron Transportation to Boost Electrocatalytic and Photoelectrocatalytic Water Oxidation Activity (Adv. Funct. Mater. 16/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970107	15.6	
575	Improved Epitaxy of AlN Film for Deep-Ultraviolet Light-Emitting Diodes Enabled by Graphene. <i>Advanced Materials</i> , 2019 , 31, e1807345	24	79
574	Scalable and ultrafast epitaxial growth of single-crystal graphene wafers for electrically tunable liquid-crystal microlens arrays. <i>Science Bulletin</i> , 2019 , 64, 659-668	10.6	50
573	In situ construction of CoSe ₂ @vertical-oriented graphene arrays as self-supporting electrodes for sodium-ion capacitors and electrocatalytic oxygen evolution. <i>Nano Energy</i> , 2019 , 60, 385-393	17.1	57
572	Flexible perovskite solar cell-driven photo-rechargeable lithium-ion capacitor for self-powered wearable strain sensors. <i>Nano Energy</i> , 2019 , 60, 247-256	17.1	97
571	Rapid synthesis of pristine graphene inside a transmission electron microscope using gold as catalyst. <i>Communications Chemistry</i> , 2019 , 2,	6.3	4
570	Mosaic rGO layers on lithium metal anodes for the effective mediation of lithium plating and stripping. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12214-12224	13	31
569	Transparent Electrothermal Heaters Based on Vertically-Oriented Graphene Glass Hybrid Materials. <i>Nanomaterials</i> , 2019 , 9,	5.4	4
568	New Frontiers in Electron Beam-Driven Chemistry in and around Graphene. <i>Advanced Materials</i> , 2019 , 31, e1800715	24	22
567	Bioactive Functionalized Monolayer Graphene for High-Resolution Cryo-Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4016-4025	16.4	44

566	Exploring Approaches for the Synthesis of Few-Layered Graphdiyne. <i>Advanced Materials</i> , 2019 , 31, e1803758	42
565	Accelerated LiS chemistry at a cooperative interface built in situ. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20750-20759	13 15
564	Nitrogen cluster doping for high-mobility/conductivity graphene films with millimeter-sized domains. <i>Science Advances</i> , 2019 , 5, eaaw8337	14.3 39
563	Macroscale single crystal graphene templated directional alignment of liquid-crystal microlens array for light field imaging. <i>Applied Physics Letters</i> , 2019 , 115, 071903	3.4 3
562	Graphene photonic crystal fibre with strong and tunable light-matter interaction. <i>Nature Photonics</i> , 2019 , 13, 754-759	33.9 69
561	Ultrafast Catalyst-Free Graphene Growth on Glass Assisted by Local Fluorine Supply. <i>ACS Nano</i> , 2019 , 13, 10272-10278	16.7 19
560	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14446-14451	16.4 43
559	Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie</i> , 2019 , 131, 14588-14593	3.6 2
558	Versatile N-Doped MXene Ink for Printed Electrochemical Energy Storage Application. <i>Advanced Energy Materials</i> , 2019 , 9, 1901839	21.8 172
557	UV Light-Emitting Diodes: Enhancement of Heat Dissipation in Ultraviolet Light-Emitting Diodes by a Vertically Oriented Graphene Nanowall Buffer Layer (Adv. Mater. 29/2019). <i>Advanced Materials</i> , 2019 , 31, 1970211	24 1
556	Conductive and Catalytic VTe@MgO Heterostructure as Effective Polysulfide Promotor for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2019 , 13, 13235-13243	16.7 71
555	Elevated polysulfide regulation by an ultralight all-CVD-built ReS ₂ @N-Doped graphene heterostructure interlayer for lithium-sulfur batteries. <i>Nano Energy</i> , 2019 , 66, 104190	17.1 57
554	Printable magnesium ion quasi-solid-state asymmetric supercapacitors for flexible solar-charging integrated units. <i>Nature Communications</i> , 2019 , 10, 4913	17.4 90
553	Atomic mechanism of strong interactions at the graphene/sapphire interface. <i>Nature Communications</i> , 2019 , 10, 5013	17.4 13
552	Confining MOF-derived SnSe nanoplatelets in nitrogen-doped graphene cages via direct CVD for durable sodium ion storage. <i>Nano Research</i> , 2019 , 12, 3051-3058	10 39
551	Synthesis of Doped Porous 3D Graphene Structures by Chemical Vapor Deposition and Its Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1904457	15.6 35
550	Frontispiece: Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2019 , 58,	16.4 1
549	Enhanced Sulfur Redox and Polysulfide Regulation via Porous VN-Modified Separator for Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5687-5694	9.5 80

548	Graphene: Direct CVD Growth of Graphene on Traditional Glass: Methods and Mechanisms (Adv. Mater. 9/2019). <i>Advanced Materials</i> , 2019 , 31, 1970067	24	2
547	Coulomb-dominated oscillations in a graphene quantum Hall Fabry-Pérot interferometer. <i>Chinese Physics B</i> , 2019 , 28, 127203	1.2	2
546	Toward Mass Production of CVD Graphene Films. <i>Advanced Materials</i> , 2019 , 31, e1800996	24	123
545	Applications of 2D MXenes in energy conversion and storage systems. <i>Chemical Society Reviews</i> , 2019 , 48, 72-133	58.5	878
544	Defects guided wrinkling in graphene on copper substrate. <i>Carbon</i> , 2019 , 143, 736-742	10.4	23
543	Direct CVD Growth of Graphene on Traditional Glass: Methods and Mechanisms. <i>Advanced Materials</i> , 2019 , 31, e1803639	24	73
542	All VN-graphene architecture derived self-powered wearable sensors for ultrasensitive health monitoring. <i>Nano Research</i> , 2019 , 12, 331-338	10	48
541	A comparative study on simple and practical chemical gas sensors from chemically modified graphene films. <i>Materials Research Express</i> , 2019 , 6, 015607	1.7	3
540	Template Synthesis of an Ultrathin Graphdiyne-Like Film Using the Eglinton Coupling Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2734-2739	9.5	41
539	Synthesis of Ultrathin Graphdiyne Film Using a Surface Template. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2632-2637	9.5	65
538	Batch production of 6-inch uniform monolayer molybdenum disulfide catalyzed by sodium in glass. <i>Nature Communications</i> , 2018 , 9, 979	17.4	224
537	Interfacial engineering in graphene bandgap. <i>Chemical Society Reviews</i> , 2018 , 47, 3059-3099	58.5	94
536	Scalable chemical-vapour-deposition growth of three-dimensional graphene materials towards energy-related applications. <i>Chemical Society Reviews</i> , 2018 , 47, 3018-3036	58.5	98
535	Ultrahigh-Energy Density Lithium-Ion Cable Battery Based on the Carbon-Nanotube Woven Macrofilms. <i>Small</i> , 2018 , 14, e1800414	11	45
534	Vanadium Dioxide-Graphene Composite with Ultrafast Anchoring Behavior of Polysulfides for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15733-15741	9.5	70
533	In Situ Assembly of 2D Conductive Vanadium Disulfide with Graphene as a High-Sulfur-Loading Host for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1800201	21.8	146
532	Revealing the Contribution of Individual Factors to Hydrogen Evolution Reaction Catalytic Activity. <i>Advanced Materials</i> , 2018 , 30, e1706076	24	54
531	Diatomite-Templated Synthesis of Freestanding 3D Graphdiyne for Energy Storage and Catalysis Application. <i>Advanced Materials</i> , 2018 , 30, e1800548	24	93

530	Charge transport and electron-hole asymmetry in low-mobility graphene/hexagonal boron nitride heterostructures. <i>Journal of Applied Physics</i> , 2018 , 123, 064303	2.5	1
529	A Highly Stretchable Cross-Linked Polyacrylamide Hydrogel as an Effective Binder for Silicon and Sulfur Electrodes toward Durable Lithium-Ion Storage. <i>Advanced Functional Materials</i> , 2018 , 28, 1705015 ^{15.6}	15.6	114
528	Local electrochemical reactivity of single layer graphene deposited on flexible and transparent plastic film using scanning electrochemical microscopy. <i>Carbon</i> , 2018 , 130, 566-573	10.4	3
527	Wearable energy sources based on 2D materials. <i>Chemical Society Reviews</i> , 2018 , 47, 3152-3188	58.5	158
526	Greatly Enhanced Anticorrosion of Cu by Commensurate Graphene Coating. <i>Advanced Materials</i> , 2018 , 30, 1702944	24	85
525	Switching Vertical to Horizontal Graphene Growth Using Faraday Cage-Assisted PECVD Approach for High-Performance Transparent Heating Device. <i>Advanced Materials</i> , 2018 , 30, 1704839	24	53
524	Anisotropic Strain Relaxation of Graphene by Corrugation on Copper Crystal Surfaces. <i>Small</i> , 2018 , 14, e1800725	11	25
523	Mineral-Templated 3D Graphene Architectures for Energy-Efficient Electrodes. <i>Small</i> , 2018 , 14, e1801009	11	19
522	Recent progress in the tailored growth of two-dimensional hexagonal boron nitride via chemical vapour deposition. <i>Chemical Society Reviews</i> , 2018 , 47, 4242-4257	58.5	70
521	Nanostructured Bi ₂ S ₃ encapsulated within three-dimensional N-doped graphene as active and flexible anodes for sodium-ion batteries. <i>Nano Research</i> , 2018 , 11, 4614-4626	10	65
520	Low-field magnetotransport in graphene cavity devices. <i>Nanotechnology</i> , 2018 , 29, 205707	3.4	1
519	Single Cr atom catalytic growth of graphene. <i>Nano Research</i> , 2018 , 11, 2405-2411	10	27
518	6-inch uniform vertically-oriented graphene on soda-lime glass for photothermal applications. <i>Nano Research</i> , 2018 , 11, 3106-3115	10	42
517	Ultrathin graphdiyne film on graphene through solution-phase van der Waals epitaxy. <i>Science Advances</i> , 2018 , 4, eaat6378	14.3	134
516	In Situ Room Temperature Electron-Beam Driven Graphene Growth from Hydrocarbon Contamination in a Transmission Electron Microscope. <i>Materials</i> , 2018 , 11,	3.5	12
515	Low-Temperature Heteroepitaxy of 2D PbI ₂ /Graphene for Large-Area Flexible Photodetectors. <i>Advanced Materials</i> , 2018 , 30, e1803194	24	61
514	Ultrafast and highly sensitive infrared photodetectors based on two-dimensional oxyselenide crystals. <i>Nature Communications</i> , 2018 , 9, 3311	17.4	135
513	High-Brightness Blue Light-Emitting Diodes Enabled by a Directly Grown Graphene Buffer Layer. <i>Advanced Materials</i> , 2018 , 30, e1801608	24	67

512	Solar thermal-driven capacitance enhancement of supercapacitors. <i>Energy and Environmental Science</i> , 2018 , 11, 2016-2024	35.4	54
511	Soft transparent graphene contact lens electrodes for conformal full-cornea recording of electroretinogram. <i>Nature Communications</i> , 2018 , 9, 2334	17.4	65
510	2D graphdiyne materials: challenges and opportunities in energy field. <i>Science China Chemistry</i> , 2018 , 61, 765-786	7.9	89
509	Applications of Phosphorene and Black Phosphorus in Energy Conversion and Storage Devices. <i>Advanced Energy Materials</i> , 2018 , 8, 1702093	21.8	272
508	Growth of defect-engineered graphene on manganese oxides for Li-ion storage. <i>Energy Storage Materials</i> , 2018 , 12, 110-118	19.4	21
507	Low-Temperature and Rapid Growth of Large Single-Crystalline Graphene with Ethane. <i>Small</i> , 2018 , 14, 1702916	11	30
506	Carbon Nanostructures as a Multi-Functional Platform for Sensing Applications. <i>Chemosensors</i> , 2018 , 6, 60	4	18
505	High-Yield Formation of Graphdiyne Macrocycles through On-Surface Assembling and Coupling Reaction. <i>ACS Nano</i> , 2018 , 12, 12612-12618	16.7	30
504	Self-Assembled Binary Organic Granules with Multiple Lithium Uptake Mechanisms toward High-Energy Flexible Lithium-Ion Hybrid Supercapacitors. <i>Advanced Energy Materials</i> , 2018 , 8, 1802273	21.8	52
503	Ultrafast Broadband Charge Collection from Clean Graphene/CHNHPbI Interface. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14952-14957	16.4	21
502	Biotemplated Synthesis of Transition Metal Nitride Architectures for Flexible Printed Circuits and Wearable Energy Storages. <i>Advanced Functional Materials</i> , 2018 , 28, 1805510	15.6	30
501	Charge Density Waves Driven by Peierls Instability at the Interface of Two-Dimensional Lateral Heterostructures. <i>Small</i> , 2018 , 14, e1803040	11	2
500	In-situ PECVD-enabled graphene-V2O3 hybrid host for lithium-sulfur batteries. <i>Nano Energy</i> , 2018 , 53, 432-439	17.1	76
499	Identifying the Non-Identical Outermost Selenium Atoms and Invariable Band Gaps across the Grain Boundary of Anisotropic Rhenium Diselenide. <i>ACS Nano</i> , 2018 , 12, 10095-10103	16.7	15
498	Biotemplating Growth of Nepenthes-like N-Doped Graphene as a Bifunctional Polysulfide Scavenger for Li-S Batteries. <i>ACS Nano</i> , 2018 , 12, 10240-10250	16.7	104
497	Bridging the Gap between Reality and Ideal in Chemical Vapor Deposition Growth of Graphene. <i>Chemical Reviews</i> , 2018 , 118, 9281-9343	68.1	160
496	Flexible Photodetectors: Low-Temperature Heteroepitaxy of 2D PbI2/Graphene for Large-Area Flexible Photodetectors (Adv. Mater. 36/2018). <i>Advanced Materials</i> , 2018 , 30, 1870271	24	2
495	Fast Growth of Strain-Free AlN on Graphene-Buffered Sapphire. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11935-11941	16.4	54

494	Highly Conductive Nitrogen-Doped Graphene Grown on Glass toward Electrochromic Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32622-32630	9.5	24
493	Graphene Glass Inducing Multidomain Orientations in Cholesteric Liquid Crystal Devices toward Wide Viewing Angles. <i>ACS Nano</i> , 2018 , 12, 6443-6451	16.7	26
492	Caging Nb O Nanowires in PECVD-Derived Graphene Capsules toward Bendable Sodium-Ion Hybrid Supercapacitors. <i>Advanced Materials</i> , 2018 , 30, e1800963	24	126
491	Synchronous immobilization and conversion of polysulfides on a VO ₂ /N binary host targeting high sulfur load LiS batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 2620-2630	35.4	327
490	Direct Growth of 5 in. Uniform Hexagonal Boron Nitride on Glass for High-Performance Deep-Ultraviolet Light-Emitting Diodes. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800662	4.6	11
489	Strong Adlayer-Substrate Interactions "Break" the Patching Growth of h-BN onto Graphene on Re(0001). <i>ACS Nano</i> , 2017 , 11, 1807-1815	16.7	22
488	Self-Terminating Confinement Approach for Large-Area Uniform Monolayer Graphene Directly over Si/SiO by Chemical Vapor Deposition. <i>ACS Nano</i> , 2017 , 11, 1946-1956	16.7	87
487	Movement of Dirac points and band gaps in graphyne under rotating strain. <i>Nano Research</i> , 2017 , 10, 2005-2020	10	11
486	Chemical Vapor Deposition Growth of Linked Carbon Monolayers with Acetylenic Scaffoldings on Silver Foil. <i>Advanced Materials</i> , 2017 , 29, 1604665	24	74
485	Controlling the orientations of h-BN during growth on transition metals by chemical vapor deposition. <i>Nanoscale</i> , 2017 , 9, 3561-3567	7.7	18
484	Irreparable Defects Produced by the Patching of h-BN Frontiers on Strongly Interacting Re(0001) and Their Electronic Properties. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5849-5856	16.4	10
483	Electrical and Photoresponse Properties of Inversion Asymmetric Topological Insulator BiTeCl Nanoplates. <i>ChemNanoMat</i> , 2017 , 3, 406-410	3.5	5
482	Substrate Doping Effect and Unusually Large Angle van Hove Singularity Evolution in Twisted Bi- and Multilayer Graphene. <i>Advanced Materials</i> , 2017 , 29, 1606741	24	29
481	Clean Transfer of Large Graphene Single Crystals for High-Intactness Suspended Membranes and Liquid Cells. <i>Advanced Materials</i> , 2017 , 29, 1700639	24	50
480	Vertical Graphene Growth on SiO Microparticles for Stable Lithium Ion Battery Anodes. <i>Nano Letters</i> , 2017 , 17, 3681-3687	11.5	185
479	Electron-Hole Symmetry Breaking in Charge Transport in Nitrogen-Doped Graphene. <i>ACS Nano</i> , 2017 , 11, 4641-4650	16.7	31
478	Formation mechanism of overlapping grain boundaries in graphene chemical vapor deposition growth. <i>Chemical Science</i> , 2017 , 8, 2209-2214	9.4	31
477	Nickelocene-Precursor-Facilitated Fast Growth of Graphene/h-BN Vertical Heterostructures and Its Applications in OLEDs. <i>Advanced Materials</i> , 2017 , 29, 1701325	24	37

476	Graphdiyne Filter for Decontaminating Lead-Ion-Polluted Water. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700122	6.4	37
475	High electron mobility and quantum oscillations in non-encapsulated ultrathin semiconducting BiOSe. <i>Nature Nanotechnology</i> , 2017 , 12, 530-534	28.7	332
474	Rapid growth of angle-confined large-domain graphene bicrystals. <i>Nano Research</i> , 2017 , 10, 1189-1199	10	7
473	Direct Chemical Vapor Deposition Growth and Band-Gap Characterization of MoS/h-BN van der Waals Heterostructures on Au Foils. <i>ACS Nano</i> , 2017 , 11, 4328-4336	16.7	66
472	Architecture of Graphdiyne-Containing Thin Film Using Modified Glaser-Hay Coupling Reaction for Enhanced Photocatalytic Property of TiO. <i>Advanced Materials</i> , 2017 , 29, 1700421	24	91
471	Direct Synthesis of Graphdiyne Nanowalls on Arbitrary Substrates and Its Application for Photoelectrochemical Water Splitting Cell. <i>Advanced Materials</i> , 2017 , 29, 1605308	24	140
470	Graphene-Armored Aluminum Foil with Enhanced Anticorrosion Performance as Current Collectors for Lithium-Ion Battery. <i>Advanced Materials</i> , 2017 , 29, 1703882	24	53
469	Chemical Intercalation of Topological Insulator Grid Nanostructures for High-Performance Transparent Electrodes. <i>Advanced Materials</i> , 2017 , 29, 1703424	24	17
468	Two-dimensional metallic tantalum disulfide as a hydrogen evolution catalyst. <i>Nature Communications</i> , 2017 , 8, 958	17.4	143
467	Semiconductors: Temperature-Triggered Sulfur Vacancy Evolution in Monolayer MoS ₂ /Graphene Heterostructures (Small 40/2017). <i>Small</i> , 2017 , 13,	11	2
466	CVD Synthesis of Graphene 2017 , 19-56		4
465	Low-energy transmission electron diffraction and imaging of large-area graphene. <i>Science Advances</i> , 2017 , 3, e1603231	14.3	18
464	One-Step Growth of Graphene/Carbon Nanotube Hybrid Films on Soda-Lime Glass for Transparent Conducting Applications. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700212	6.4	12
463	Single Crystals: Clean Transfer of Large Graphene Single Crystals for High-Intactness Suspended Membranes and Liquid Cells (Adv. Mater. 26/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
462	Metallic Vanadium Disulfide Nanosheets as a Platform Material for Multifunctional Electrode Applications. <i>Nano Letters</i> , 2017 , 17, 4908-4916	11.5	155
461	Hierarchical Graphene Foam for Efficient Omnidirectional Solar-Thermal Energy Conversion. <i>Advanced Materials</i> , 2017 , 29, 1702590	24	480
460	Temperature-Triggered Sulfur Vacancy Evolution in Monolayer MoS ₂ /Graphene Heterostructures. <i>Small</i> , 2017 , 13, 1602967	11	43
459	Anisotropic carrier mobility in two-dimensional materials with tilted Dirac cones: theory and application. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 23942-23950	3.6	40

458	Wrinkle-Free Single-Crystal Graphene Wafer Grown on Strain-Engineered Substrates. <i>ACS Nano</i> , 2017 , 11, 12337-12345	16.7	112
457	Monitoring Local Strain Vector in Atomic-Layered MoSe by Second-Harmonic Generation. <i>Nano Letters</i> , 2017 , 17, 7539-7543	11.5	80
456	Unique Transformation from Graphene to Carbide on Re(0001) Induced by Strong Carbon-Metal Interaction. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17574-17581	16.4	29
455	Three-dimensional nanostructured graphene: Synthesis and energy, environmental and biomedical applications. <i>Synthetic Metals</i> , 2017 , 234, 53-85	3.6	103
454	Ultrafast epitaxial growth of metre-sized single-crystal graphene on industrial Cu foil. <i>Science Bulletin</i> , 2017 , 62, 1074-1080	10.6	326
453	In Situ Electron Driven Carbon Nanopillar-Fullerene Transformation through Cr Atom Mediation. <i>Nano Letters</i> , 2017 , 17, 4725-4732	11.5	10
452	Quasi-freestanding, striped WS ₂ monolayer with an invariable band gap on Au(001). <i>Nano Research</i> , 2017 , 10, 3875-3884	10	7
451	Graphdiyne: A Promising Catalyst Support To Stabilize Cobalt Nanoparticles for Oxygen Evolution. <i>ACS Catalysis</i> , 2017 , 7, 5209-5213	13.1	116
450	Synthesis of Hierarchical Graphdiyne-Based Architecture for Efficient Solar Steam Generation. <i>Chemistry of Materials</i> , 2017 , 29, 5777-5781	9.6	155
449	Fast Growth and Broad Applications of 25-Inch Uniform Graphene Glass. <i>Advanced Materials</i> , 2017 , 29, 1603428	24	75
448	Visualizing fast growth of large single-crystalline graphene by tunable isotopic carbon source. <i>Nano Research</i> , 2017 , 10, 355-363	10	24
447	Seed-Assisted Growth of Single-Crystalline Patterned Graphene Domains on Hexagonal Boron Nitride by Chemical Vapor Deposition. <i>Nano Letters</i> , 2016 , 16, 6109-6116	11.5	56
446	Surface Monocrystallization of Copper Foil for Fast Growth of Large Single-Crystal Graphene under Free Molecular Flow. <i>Advanced Materials</i> , 2016 , 28, 8968-8974	24	110
445	Fast and uniform growth of graphene glass using confined-flow chemical vapor deposition and its unique applications. <i>Nano Research</i> , 2016 , 9, 3048-3055	10	28
444	Direct Chemical-Vapor-Deposition-Fabricated, Large-Scale Graphene Glass with High Carrier Mobility and Uniformity for Touch Panel Applications. <i>ACS Nano</i> , 2016 , 10, 11136-11144	16.7	56
443	Current Progress in the Chemical Vapor Deposition of Type-Selected Horizontally Aligned Single-Walled Carbon Nanotubes. <i>ACS Nano</i> , 2016 , 10, 7248-66	16.7	14
442	Isotropic Growth of Graphene toward Smoothing Stitching. <i>ACS Nano</i> , 2016 , 10, 7189-96	16.7	43
441	Graphene Encapsulated Copper Microwires as Highly MRI Compatible Neural Electrodes. <i>Nano Letters</i> , 2016 , 16, 7731-7738	11.5	57

440	Growing three-dimensional biomorphic graphene powders using naturally abundant diatomite templates towards high solution processability. <i>Nature Communications</i> , 2016 , 7, 13440	17.4	71
439	Selectively enhanced photocurrent generation in twisted bilayer graphene with van Hove singularity. <i>Nature Communications</i> , 2016 , 7, 10699	17.4	88
438	Morphological Engineering of CVD-Grown Transition Metal Dichalcogenides for Efficient Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2016 , 28, 6207-12	24	43
437	Rapid Growth of Large Single-Crystalline Graphene via Second Passivation and Multistage Carbon Supply. <i>Advanced Materials</i> , 2016 , 28, 4671-7	24	52
436	Controllable Sliding Transfer of Wafer-Size Graphene. <i>Advanced Science</i> , 2016 , 3, 1600006	13.6	21
435	Hexagonal Boron Nitride-Graphene Heterostructures: Synthesis and Interfacial Properties. <i>Small</i> , 2016 , 12, 32-50	11	101
434	Bioinspired synthesis of CVD graphene flakes and graphene-supported molybdenum sulfide catalysts for hydrogen evolution reaction. <i>Nano Research</i> , 2016 , 9, 249-259	10	20
433	Surface Engineering of Copper Foils for Growing Centimeter-Sized Single-Crystalline Graphene. <i>ACS Nano</i> , 2016 , 10, 2922-9	16.7	78
432	An ultrafast terahertz probe of the transient evolution of the charged and neutral phase of photo-excited electron-hole gas in a monolayer semiconductor. <i>2D Materials</i> , 2016 , 3, 014001	5.9	16
431	Periodic Modulation of the Doping Level in Striped MoS ₂ Superstructures. <i>ACS Nano</i> , 2016 , 10, 3461-8	16.7	26
430	Catalyst-Free Growth of Three-Dimensional Graphene Flakes and Graphene/g-C ₃ N ₄ Composite for Hydrocarbon Oxidation. <i>ACS Nano</i> , 2016 , 10, 3665-73	16.7	93
429	Low-Temperature Growth of Two-Dimensional Layered Chalcogenide Crystals on Liquid. <i>Nano Letters</i> , 2016 , 16, 2103-7	11.5	39
428	Graphdiyne: A Metal-Free Material as Hole Transfer Layer To Fabricate Quantum Dot-Sensitized Photocathodes for Hydrogen Production. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3954-7	16.4	257
427	Weak antilocalization and electron-electron interaction in coupled multiple-channel transport in a Bi ₂ Se ₃ thin film. <i>Nanoscale</i> , 2016 , 8, 1879-85	7.7	40
426	Graphene synthesis: On-the-spot growth. <i>Nature Materials</i> , 2016 , 15, 9-10	27	24
425	Graphene-Like ZnO: A Mini Review. <i>Crystals</i> , 2016 , 6, 100	2.3	64
424	Probe of local impurity states by bend resistance measurements in graphene cross junctions. <i>Nanotechnology</i> , 2016 , 27, 245204	3.4	2
423	Edge-States-Induced Disruption to the Energy Band Alignment at Thickness-Modulated Molybdenum Sulfide Junctions. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600048	6.4	14

4 ²²	Tuning Chemical Potential Difference across Alternately Doped Graphene p-n Junctions for High-Efficiency Photodetection. <i>Nano Letters</i> , 2016 , 16, 4094-101	11.5	26
4 ²¹	Substrate-Induced Graphene Chemistry for 2D Superlattices with Tunable Periodicities. <i>Advanced Materials</i> , 2016 , 28, 2148-54	24	16
4 ²⁰	Monolayer MoS ₂ Dendrites on a Symmetry-Disparate SrTiO ₃ (001) Substrate: Formation Mechanism and Interface Interaction. <i>Advanced Functional Materials</i> , 2016 , 26, 3299-3305	15.6	44
4 ¹⁹	Recent Advances in Controlling Syntheses and Energy Related Applications of MX ₂ and MX ₂ /Graphene Heterostructures. <i>Advanced Energy Materials</i> , 2016 , 6, 1600459	21.8	35
4 ¹⁸	Two-Dimensional (CH _{3NH₃})PbBr ₃ Perovskite Crystals for High-Performance Photodetector. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16612-16615	16.4	273
4 ¹⁷	Robust Superhydrophobic Foam: A Graphdiyne-Based Hierarchical Architecture for Oil/Water Separation. <i>Advanced Materials</i> , 2016 , 28, 168-73	24	359
4 ¹⁶	Electron-Driven Metal Oxide Effusion and Graphene Gasification at Room Temperature. <i>ACS Nano</i> , 2016 , 10, 6323-30	16.7	11
4 ¹⁵	A Flexible and Transparent Graphene-Based Triboelectric Nanogenerator. <i>IEEE Nanotechnology Magazine</i> , 2016 , 15, 435-441	2.6	31
4 ¹⁴	Scalable Seashell-Based Chemical Vapor Deposition Growth of Three-Dimensional Graphene Foams for Oil-Water Separation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6360-3	16.4	177
4 ¹³	Raman Spectra and Corresponding Strain Effects in Graphyne and Graphdiyne. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10605-10613	3.8	80
4 ¹²	Building Large-Domain Twisted Bilayer Graphene with van Hove Singularity. <i>ACS Nano</i> , 2016 , 10, 6725-30	16.7	40
4 ¹¹	Graphene/h-BN Heterostructures: Graphene/h-BN Heterostructures: Recent Advances in Controllable Preparation and Functional Applications (Adv. Energy Mater. 17/2016). <i>Advanced Energy Materials</i> , 2016 , 6,	21.8	2
4 ¹⁰	Temperature-Mediated Selective Growth of MoS ₂ /WS ₂ and WS ₂ /MoS ₂ Vertical Stacks on Au Foils for Direct Photocatalytic Applications. <i>Advanced Materials</i> , 2016 , 28, 10664-10672	24	142
4 ⁰⁹	Graphene Glass from Direct CVD Routes: Production and Applications. <i>Advanced Materials</i> , 2016 , 28, 10333-10339	24	42
4 ⁰⁸	Transition Metal Dichalcogenides: Morphological Engineering of CVD-Grown Transition Metal Dichalcogenides for Efficient Electrochemical Hydrogen Evolution (Adv. Mater. 29/2016). <i>Advanced Materials</i> , 2016 , 28, 6020	24	1
4 ⁰⁷	Modulating the Electronic Properties of Monolayer Graphene Using a Periodic Quasi-One-Dimensional Potential Generated by Hex-Reconstructed Au(001). <i>ACS Nano</i> , 2016 , 10, 7550-7	16.7	16
4 ⁰⁶	Human-Like Sensing and Reflexes of Graphene-Based Films. <i>Advanced Science</i> , 2016 , 3, 1600130	13.6	28
4 ⁰⁵	Narrow-Gap Quantum Wires Arising from the Edges of Monolayer MoS ₂ Synthesized on Graphene. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600332	4.6	23

404	Direct Chemical Vapor Deposition Growth of Graphene on Insulating Substrates. <i>ChemNanoMat</i> , 2016 , 2, 9-18	3.5	41
403	Growth of high-density horizontally aligned SWNT arrays using Trojan catalysts. <i>Nature Communications</i> , 2015 , 6, 6099	17.4	94
402	Controlled synthesis of single-crystal SnSe nanoplates. <i>Nano Research</i> , 2015 , 8, 288-295	10	170
401	Direct growth of large-area graphene and boron nitride heterostructures by a co-segregation method. <i>Nature Communications</i> , 2015 , 6, 6519	17.4	173
400	Uniform single-layer graphene growth on recyclable tungsten foils. <i>Nano Research</i> , 2015 , 8, 592-599	10	18
399	A Roadmap for Controlled Production of Topological Insulator Nanostructures and Thin Films. <i>Small</i> , 2015 , 11, 3290-305	11	36
398	Grain Boundary Structures and Electronic Properties of Hexagonal Boron Nitride on Cu(111). <i>Nano Letters</i> , 2015 , 15, 5804-10	11.5	100
397	van Hove Singularity Enhanced Photochemical Reactivity of Twisted Bilayer Graphene. <i>Nano Letters</i> , 2015 , 15, 5585-9	11.5	41
396	Chemical vapor deposition of monolayer WS ₂ nanosheets on Au foils toward direct application in hydrogen evolution. <i>Nano Research</i> , 2015 , 8, 2881-2890	10	75
395	The reconstructed edges of the hexagonal BN. <i>Nanoscale</i> , 2015 , 7, 9723-30	7.7	29
394	Temperature-triggered chemical switching growth of in-plane and vertically stacked graphene-boron nitride heterostructures. <i>Nature Communications</i> , 2015 , 6, 6835	17.4	169
393	Patterning two-dimensional chalcogenide crystals of Bi ₂ Se ₃ and In ₂ Se ₃ and efficient photodetectors. <i>Nature Communications</i> , 2015 , 6, 6972	17.4	133
392	Graphene From basic science to useful technology. <i>National Science Review</i> , 2015 , 2, 16-16	10.8	6
391	The transition metal surface passivated edges of hexagonal boron nitride (h-BN) and the mechanism of h-BN's chemical vapor deposition (CVD) growth. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 29327-34	3.6	38
390	A universal etching-free transfer of MoS ₂ films for applications in photodetectors. <i>Nano Research</i> , 2015 , 8, 3662-3672	10	72
389	Chemical vapor deposition growth of large-scale hexagonal boron nitride with controllable orientation. <i>Nano Research</i> , 2015 , 8, 3164-3176	10	131
388	Monodisperse Copper Chalcogenide Nanocrystals: Controllable Synthesis and the Pinning of Plasmonic Resonance Absorption. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12006-12	16.4	52
387	Direct Chemical Vapor Deposition-Derived Graphene Glasses Targeting Wide Ranged Applications. <i>Nano Letters</i> , 2015 , 15, 5846-54	11.5	152

386	Direct low-temperature synthesis of graphene on various glasses by plasma-enhanced chemical vapor deposition for versatile, cost-effective electrodes. <i>Nano Research</i> , 2015 , 8, 3496-3504	10	98
385	Controllable synthesis of graphene using novel aromatic 1,3,5-triethynylbenzene molecules on Rh(111). <i>RSC Advances</i> , 2015 , 5, 76620-76625	3.7	6
384	Monolayer MoS ₂ Growth on Au Foils and On-Site Domain Boundary Imaging. <i>Advanced Functional Materials</i> , 2015 , 25, 842-849	15.6	59
383	Unravelling orientation distribution and merging behavior of monolayer MoS ₂ domains on sapphire. <i>Nano Letters</i> , 2015 , 15, 198-205	11.5	110
382	Chemical vapour deposition of group-VIB metal dichalcogenide monolayers: engineered substrates from amorphous to single crystalline. <i>Chemical Society Reviews</i> , 2015 , 44, 2587-602	58.5	271
381	Advances in electrokinetics revealed in graphene. <i>National Science Review</i> , 2015 , 2, 17-18	10.8	2
380	All Chemical Vapor Deposition Synthesis and Intrinsic Bandgap Observation of MoS ₂ /Graphene Heterostructures. <i>Advanced Materials</i> , 2015 , 27, 7086-92	24	100
379	2D Hybrid Nanostructured Dirac Materials for Broadband Transparent Electrodes. <i>Advanced Materials</i> , 2015 , 27, 4315-21	24	8
378	Fabrication of Chemical Graphene Nanoribbons via Edge-Selective Covalent Modification. <i>Advanced Materials</i> , 2015 , 27, 4093-6	24	13
377	Roll-to-Roll Green Transfer of CVD Graphene onto Plastic for a Transparent and Flexible Triboelectric Nanogenerator. <i>Advanced Materials</i> , 2015 , 27, 5210-6	24	215
376	Direct Synthesis of Few-Layer Graphene on NaCl Crystals. <i>Small</i> , 2015 , 11, 6302-8	11	45
375	Growing Uniform Graphene Disks and Films on Molten Glass for Heating Devices and Cell Culture. <i>Advanced Materials</i> , 2015 , 27, 7839-46	24	102
374	The rare two-dimensional materials with Dirac cones. <i>National Science Review</i> , 2015 , 2, 22-39	10.8	243
373	Roll-to-Roll Encapsulation of Metal Nanowires between Graphene and Plastic Substrate for High-Performance Flexible Transparent Electrodes. <i>Nano Letters</i> , 2015 , 15, 4206-13	11.5	357
372	Substrate Facet Effect on the Growth of Monolayer MoS ₂ on Au Foils. <i>ACS Nano</i> , 2015 , 9, 4017-25	16.7	78
371	Synthesis of Graphdiyne Nanowalls Using Acetylenic Coupling Reaction. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7596-9	16.4	350
370	Photochemistry of Graphene. <i>Structure and Bonding</i> , 2015 , 213-238	0.9	
369	Building graphene p-n junctions for next-generation photodetection. <i>Nano Today</i> , 2015 , 10, 701-716	17.9	37

368	Monolayer Films: Monolayer MoS ₂ Growth on Au Foils and On-Site Domain Boundary Imaging (Adv. Funct. Mater. 6/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 826-826	15.6	2
367	Controllable Growth of MoS ₂ on Au Foils and Its Application in Hydrogen Evolution. <i>Acta Chimica Sinica</i> , 2015 , 73, 877	3.3	5
366	Scanning tunneling microscopy study of in-plane graphene-hexagonal boron nitride heterostructures. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015 , 64, 078101	0.6	2
365	Controllable co-segregation synthesis of wafer-scale hexagonal boron nitride thin films. <i>Advanced Materials</i> , 2014 , 26, 1776-81	24	73
364	Direct growth of high-quality graphene on high- κ dielectric SrTiO ₃ substrates. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6574-7	16.4	119
363	Epitaxy and photoresponse of two-dimensional GaSe crystals on flexible transparent mica sheets. <i>ACS Nano</i> , 2014 , 8, 1485-90	16.7	245
362	Identifying sp-sp ² carbon materials by Raman and infrared spectroscopies. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 11303-9	3.6	64
361	Surface-confined single-layer covalent organic framework on single-layer graphene grown on copper foil. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9564-8	16.4	118
360	Creating one-dimensional nanoscale periodic ripples in a continuous mosaic graphene monolayer. <i>Physical Review Letters</i> , 2014 , 113, 086102	7.4	97
359	Surface-Confined Single-Layer Covalent Organic Framework on Single-Layer Graphene Grown on Copper Foil. <i>Angewandte Chemie</i> , 2014 , 126, 9718-9722	3.6	23
358	Ultrathin two-dimensional atomic crystals as stable interfacial layer for improvement of lithium metal anode. <i>Nano Letters</i> , 2014 , 14, 6016-22	11.5	545
357	Plasmonic hot electron induced structural phase transition in a MoS ₂ monolayer. <i>Advanced Materials</i> , 2014 , 26, 6467-71	24	429
356	Epitaxial growth of asymmetrically-doped bilayer graphene for photocurrent generation. <i>Small</i> , 2014 , 10, 2245-50	11	4
355	Chemistry makes graphene beyond graphene. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12194-200	16.4	184
354	Angle-dependent van Hove singularities and their breakdown in twisted graphene bilayers. <i>Physical Review B</i> , 2014 , 90,	3.3	40
353	Quasi-freestanding monolayer heterostructure of graphene and hexagonal boron nitride on Ir(111) with a zigzag boundary. <i>Nano Letters</i> , 2014 , 14, 6342-7	11.5	108
352	Dendritic, transferable, strictly monolayer MoS ₂ flakes synthesized on SrTiO ₃ single crystals for efficient electrocatalytic applications. <i>ACS Nano</i> , 2014 , 8, 8617-24	16.7	140
351	Novel graphene oxide semiconductor nanowire phototransistors. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1592	7.1	18

350	Carbide-forming groups IVB-VIB metals: a new territory in the periodic table for CVD growth of graphene. <i>Nano Letters</i> , 2014 , 14, 3832-9	11.5	80
349	Controllable growth and transfer of monolayer MoS ₂ on Au foils and its potential application in hydrogen evolution reaction. <i>ACS Nano</i> , 2014 , 8, 10196-204	16.7	351
348	High-quality monolayer graphene synthesis on Pd foils via the suppression of multilayer growth at grain boundaries. <i>Small</i> , 2014 , 10, 4003-11	11	16
347	Interlayer vibrational modes in few-quintuple-layer Bi ₂ Te ₃ and Bi ₂ Se ₃ two-dimensional crystals: Raman spectroscopy and first-principles studies. <i>Physical Review B</i> , 2014 , 90,	3.3	68
346	Moiré patterns and step edges on few-layer graphene grown on nickel films. <i>Chinese Physics B</i> , 2014 , 23, 116801	1.2	4
345	Trifluoromethylation of graphene. <i>APL Materials</i> , 2014 , 2, 092505	5.7	2
344	Boron nitride film as a buffer layer in deposition of dielectrics on graphene. <i>Small</i> , 2014 , 10, 2293-9	11	18
343	Intrinsic carrier mobility of Dirac cones: the limitations of deformation potential theory. <i>Journal of Chemical Physics</i> , 2014 , 141, 144107	3.9	28
342	CMP aerogels: ultrahigh-surface-area carbon-based monolithic materials with superb sorption performance. <i>Advanced Materials</i> , 2014 , 26, 8053-8	24	102
341	Photochemical Modification of Graphene. <i>Acta Chimica Sinica</i> , 2014 , 72, 289	3.3	4
340	Conductance switching and mechanisms in single-molecule junctions. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8666-70	16.4	131
339	Plasmon-enhanced photothermoelectric conversion in chemical vapor deposited graphene p-n junctions. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10926-9	16.4	52
338	Electrical and mechanical performance of graphene sheets exposed to oxidative environments. <i>Nano Research</i> , 2013 , 6, 485-495	10	38
337	Designed CVD growth of graphene via process engineering. <i>Accounts of Chemical Research</i> , 2013 , 46, 2263-74	24.3	152
336	The edge- and basal-plane-specific electrochemistry of a single-layer graphene sheet. <i>Scientific Reports</i> , 2013 , 3, 2248	4.9	367
335	Strain and curvature induced evolution of electronic band structures in twisted graphene bilayer. <i>Nature Communications</i> , 2013 , 4, 2159	17.4	127
334	Epitaxial monolayer MoS ₂ on mica with novel photoluminescence. <i>Nano Letters</i> , 2013 , 13, 3870-7	11.5	456
333	Clean transfer of graphene on Pt foils mediated by a carbon monoxide intercalation process. <i>Nano Research</i> , 2013 , 6, 671-678	10	33

332	Superlattice Dirac points and space-dependent Fermi velocity in a corrugated graphene monolayer. <i>Physical Review B</i> , 2013 , 87,	3.3	48
331	Clean and efficient transfer of CVD-grown graphene by electrochemical etching of metal substrate. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 688, 243-248	4.1	28
330	Controlled growth of atomically thin In ₂ Se ₃ flakes by van der Waals epitaxy. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13274-7	16.4	156
329	Photocatalytic engineering of single-walled carbon nanotubes: from metal-to-semiconductor conversion to cutting and patterning. <i>Small</i> , 2013 , 9, 1336-41	11	3
328	CVD growth of large area smooth-edged graphene nanomesh by nanosphere lithography. <i>Scientific Reports</i> , 2013 , 3, 1238	4.9	102
327	Mn atomic layers under inert covers of graphene and hexagonal boron nitride prepared on Rh(111). <i>Nano Research</i> , 2013 , 6, 887-896	10	21
326	Electronic structures of graphene layers on a metal foil: The effect of atomic-scale defects. <i>Applied Physics Letters</i> , 2013 , 103, 143120	3.4	31
325	Controlled growth of high-quality monolayer WS ₂ layers on sapphire and imaging its grain boundary. <i>ACS Nano</i> , 2013 , 7, 8963-71	16.7	586
324	Nanogap based graphene coated AFM tips with high spatial resolution, conductivity and durability. <i>Nanoscale</i> , 2013 , 5, 10816-23	7.7	14
323	Graphene quantum dots embedded in a hexagonal BN sheet: identical influences of zigzag/armchair edges. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 803-6	3.6	18
322	Hydrothermally formed functional niobium oxide doped tungsten nanorods. <i>Nanotechnology</i> , 2013 , 24, 495501	3.4	14
321	Single and polycrystalline graphene on Rh(111) following different growth mechanisms. <i>Small</i> , 2013 , 9, 1360-6	11	20
320	Tuning graphene morphology by substrate towards wrinkle-free devices: Experiment and simulation. <i>Journal of Applied Physics</i> , 2013 , 113, 104301	2.5	46
319	Photo-induced free radical modification of graphene. <i>Small</i> , 2013 , 9, 1134-43	11	24
318	Photoinduced methylation of graphene. <i>Small</i> , 2013 , 9, 1348-52	11	27
317	Toward functional molecular devices based on graphene-molecule junctions. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3906-10	16.4	69
316	Bandgap opening in Janus-type mosaic graphene. <i>Journal of Applied Physics</i> , 2013 , 113, 084313	2.5	19
315	Toward single-layer uniform hexagonal boron nitride-graphene patchworks with zigzag linking edges. <i>Nano Letters</i> , 2013 , 13, 3439-43	11.5	216

314	Janus graphene from asymmetric two-dimensional chemistry. <i>Nature Communications</i> , 2013 , 4, 1443	17.4	196
313	Boron nitride nanopores: highly sensitive DNA single-molecule detectors. <i>Advanced Materials</i> , 2013 , 25, 4549-54	24	182
312	Single-layer graphene sheets as counter electrodes for fiber-shaped polymer solar cells. <i>RSC Advances</i> , 2013 , 3, 13720	3.7	30
311	Free radical reactions in two dimensions: a case study on photochlorination of graphene. <i>Small</i> , 2013 , 9, 1388-96	11	15
310	Free Radicals: Free Radical Reactions in Two Dimensions: A Case Study on Photochlorination of Graphene (Small 8/2013). <i>Small</i> , 2013 , 9, 1387-1387	11	
309	Self-powered flexible and transparent photovoltaic detectors based on CdSe nanobelt/graphene Schottky junctions. <i>Nanoscale</i> , 2013 , 5, 5576-81	7.7	75
308	Synthesis of boron-doped graphene monolayers using the sole solid feedstock by chemical vapor deposition. <i>Small</i> , 2013 , 9, 1316-20	11	157
307	Widely tunable carrier mobility of boron nitride-embedded graphene. <i>Small</i> , 2013 , 9, 1373-8	11	43
306	Inverse relationship between carrier mobility and bandgap in graphene. <i>Journal of Chemical Physics</i> , 2013 , 138, 084701	3.9	94
305	Strain-induced one-dimensional Landau level quantization in corrugated graphene. <i>Physical Review B</i> , 2013 , 87,	3.3	63
304	Graphene: Single and Polycrystalline Graphene on Rh(111) Following Different Growth Mechanisms (Small 8/2013). <i>Small</i> , 2013 , 9, 1359-1359	11	3
303	Highly sensitive hot electron bolometer based on disordered graphene. <i>Scientific Reports</i> , 2013 , 3, 3533	4.9	51
302	Toward Functional Molecular Devices Based on Graphene-Molecule Junctions. <i>Angewandte Chemie</i> , 2013 , 125, 3998-4002	3.6	14
301	Helicity-dependent single-walled carbon nanotube alignment on graphite for helical angle and handedness recognition. <i>Nature Communications</i> , 2013 , 4, 2205	17.4	43
300	Selective-area van der Waals epitaxy of topological insulator grid nanostructures for broadband transparent flexible electrodes. <i>Advanced Materials</i> , 2013 , 25, 5959-64	24	35
299	Conductance Switching and Mechanisms in Single-Molecule Junctions. <i>Angewandte Chemie</i> , 2013 , 125, 8828-8832	3.6	13
298	Graphene-coated atomic force microscope tips for reliable nanoscale electrical characterization. <i>Advanced Materials</i> , 2013 , 25, 1440-4	24	44
297	Segregation Phenomenon and Its Control in the Catalytic Growth of Graphene. <i>Acta Chimica Sinica</i> , 2013 , 71, 308	3.3	10

296	Modulation-doped growth of mosaic graphene with single-crystalline p-n junctions for efficient photocurrent generation. <i>Nature Communications</i> , 2012 , 3, 1280	17.4	87
295	Building High-Throughput Molecular Junctions Using Indented Graphene Point Contacts. <i>Angewandte Chemie</i> , 2012 , 124, 12394-12398	3.6	26
294	Building high-throughput molecular junctions using indented graphene point contacts. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12228-32	16.4	115
293	Angle-dependent van Hove singularities in a slightly twisted graphene bilayer. <i>Physical Review Letters</i> , 2012 , 109, 126801	7.4	164
292	Atomic-scale morphology and electronic structure of manganese atomic layers underneath epitaxial graphene on SiC(0001). <i>ACS Nano</i> , 2012 , 6, 6562-8	16.7	42
291	Topological insulator nanostructures for near-infrared transparent flexible electrodes. <i>Nature Chemistry</i> , 2012 , 4, 281-6	17.6	270
290	Thinning segregated graphene layers on high carbon solubility substrates of rhodium foils by tuning the quenching process. <i>ACS Nano</i> , 2012 , 6, 10581-9	16.7	57
289	Sequential assembly of metal-free phthalocyanine on few-layer epitaxial graphene mediated by thickness-dependent surface potential. <i>Nano Research</i> , 2012 , 5, 543-549	10	6
288	Evolutionary Chlorination of Graphene: From Charge-Transfer Complex to Covalent Bonding and Nonbonding. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 844-850	3.8	87
287	BN-Embedded Graphene with a Ubiquitous Gap Opening. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21098-21103	3.8	87
286	Tunable spin-orbit interaction in trilayer graphene exemplified in electric-double-layer transistors. <i>Nano Letters</i> , 2012 , 12, 2212-6	11.5	17
285	Controlled synthesis of topological insulator nanoplate arrays on mica. <i>Journal of the American Chemical Society</i> , 2012 , 134, 6132-5	16.4	152
284	Surface enhanced Raman spectroscopy on a flat graphene surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 9281-6	11.5	442
283	Topological insulator nanostructures: Materials synthesis, Raman spectroscopy, and transport properties. <i>Frontiers of Physics</i> , 2012 , 7, 208-217	3.7	17
282	Different growth behaviors of ambient pressure chemical vapor deposition graphene on Ni(111) and Ni films: A scanning tunneling microscopy study. <i>Nano Research</i> , 2012 , 5, 402-411	10	55
281	First-principles study of the transport behavior of zigzag graphene nanoribbons tailored by strain. <i>AIP Advances</i> , 2012 , 2, 012103	1.5	17
280	Two-Dimensional Nanostructures of Topological Insulators and Their Devices. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2012 , 28, 2423-2435	3.8	2
279	Defect-like structures of graphene on copper foils for strain relief investigated by high-resolution scanning tunneling microscopy. <i>ACS Nano</i> , 2011 , 5, 4014-22	16.7	165

278	Growth and atomic-scale characterizations of graphene on multifaceted textured Pt foils prepared by chemical vapor deposition. <i>ACS Nano</i> , 2011 , 5, 9194-201	16.7	75
277	Photochemical chlorination of graphene. <i>ACS Nano</i> , 2011 , 5, 5957-61	16.7	284
276	Photocatalytic patterning and modification of graphene. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2706-13	16.4	160
275	Wrinkle engineering: a new approach to massive graphene nanoribbon arrays. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17578-81	16.4	126
274	Nanoveneers: an electrochemical approach to synthesizing conductive layered nanostructures. <i>ACS Nano</i> , 2011 , 5, 4000-6	16.7	6
273	Universal segregation growth approach to wafer-size graphene from non-noble metals. <i>Nano Letters</i> , 2011 , 11, 297-303	11.5	216
272	Rational design of a binary metal alloy for chemical vapour deposition growth of uniform single-layer graphene. <i>Nature Communications</i> , 2011 , 2, 522	17.4	201
271	Segregation Growth of Graphene on CuNi Alloy for Precise Layer Control. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11976-11982	3.8	174
270	Approaching the electromagnetic mechanism of surface-enhanced Raman scattering: from self-assembled arrays to individual gold nanoparticles. <i>Chemical Society Reviews</i> , 2011 , 40, 1296-304	58.5	159
269	Toward clean and crackless transfer of graphene. <i>ACS Nano</i> , 2011 , 5, 9144-53	16.7	588
268	Bandgap opening in graphene antidot lattices: the missing half. <i>ACS Nano</i> , 2011 , 5, 4023-30	16.7	137
267	High-quality single-layer graphene via reparative reduction of graphene oxide. <i>Nano Research</i> , 2011 , 4, 434-439	10	80
266	Scanning tunneling microscope observations of non-AB stacking of graphene on Ni films. <i>Nano Research</i> , 2011 , 4, 712-721	10	33
265	The origin of wrinkles on transferred graphene. <i>Nano Research</i> , 2011 , 4, 996-1004	10	183
264	Synthesis of nitrogen-doped graphene using embedded carbon and nitrogen sources. <i>Advanced Materials</i> , 2011 , 23, 1020-4	24	653
263	Site-specific transfer-printing of individual graphene microscale patterns to arbitrary surfaces. <i>Advanced Materials</i> , 2011 , 23, 3938-43	24	50
262	Separation of Metallic and Semiconducting Single-Walled Carbon Nanotube Arrays by Scotch Tape. <i>Angewandte Chemie</i> , 2011 , 123, 6951-6955	3.6	3
261	Separation of metallic and semiconducting single-walled carbon nanotube arrays by "scotch tape". <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6819-23	16.4	56

260	Measurement of the rate of water translocation through carbon nanotubes. <i>Nano Letters</i> , 2011 , 11, 2173-75	11.5	247
259	Formation of bilayer bernal graphene: layer-by-layer epitaxy via chemical vapor deposition. <i>Nano Letters</i> , 2011 , 11, 1106-10	11.5	320
258	Single-Walled Carbon Nanotubes Probing the Denaturation of Lysozyme. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 7717-7720	3.8	11
257	High-performance single CdS nanowire (nanobelt) Schottky junction solar cells with Au/graphene Schottky electrodes. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3406-10	9.5	99
256	Cap formation engineering: from opened C60 to single-walled carbon nanotubes. <i>Nano Letters</i> , 2010 , 10, 3343-9	11.5	106
255	Can graphene be used as a substrate for Raman enhancement?. <i>Nano Letters</i> , 2010 , 10, 553-61	11.5	771
254	Mirror-Image Photoswitching in a Single Organic Thin-Film Transistor. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1269-1276	6.4	17
253	Local gate effect of mechanically deformed crossed carbon nanotube junction. <i>Nano Letters</i> , 2010 , 10, 4715-20	11.5	7
252	Few-layer nanoplates of Bi ₂ Se ₃ and Bi ₂ Te ₃ with highly tunable chemical potential. <i>Nano Letters</i> , 2010 , 10, 2245-50	11.5	370
251	Epitaxial heterostructures of ultrathin topological insulator nanoplate and graphene. <i>Nano Letters</i> , 2010 , 10, 2870-6	11.5	195
250	Strain effects in graphene and graphene nanoribbons: The underlying mechanism. <i>Nano Research</i> , 2010 , 3, 545-556	10	138
249	A General Electrochemical Strategy for Synthesizing Charge-Transfer Complex Micro/Nanowires. <i>Advanced Functional Materials</i> , 2010 , 20, 1209-1223	15.6	19
248	Vertically aligned single-walled carbon nanotubes by chemical assembly--methodology, properties, and applications. <i>Advanced Materials</i> , 2010 , 22, 1430-49	24	75
247	Aligned, ultralong single-walled carbon nanotubes: from synthesis, sorting, to electronic devices. <i>Advanced Materials</i> , 2010 , 22, 2285-310	24	115
246	Photoactive gate dielectrics. <i>Advanced Materials</i> , 2010 , 22, 3282-7	24	67
245	High-Performance Langmuir-Blodgett Monolayer Transistors with High Responsivity. <i>Angewandte Chemie</i> , 2010 , 122, 6463-6467	3.6	30
244	High-performance Langmuir-Blodgett monolayer transistors with high responsivity. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6319-23	16.4	71
243	Organic charge-transfer complexes for STM-based thermochemical-hole-burning memory. <i>Coordination Chemistry Reviews</i> , 2010 , 254, 1151-1168	23.2	12

242	Production of graphene sheets by direct dispersion with aromatic healing agents. <i>Small</i> , 2010 , 6, 1100-711	150
241	Unipolar p-type single-walled carbon nanotube field-effect transistors using TTF-TCNQ as the contact material. <i>Nanotechnology</i> , 2009 , 20, 505204	3.4 10
240	High-Performance Photoresponsive Organic Nanotransistors with Single-Layer Graphenes as Two-Dimensional Electrodes. <i>Advanced Functional Materials</i> , 2009 , 19, 2743-2748	15.6 110
239	Electrochemical Synthesis of High-Quality AgTCNQ Nanowires Using Carbon Nanotube Electrodes. <i>Advanced Materials</i> , 2009 , 21, NA-NA	24 1
238	Crinkling Ultralong Carbon Nanotubes into Serpentine by a Controlled Landing Process. <i>Advanced Materials</i> , 2009 , 21, 4158-4162	24 38
237	Mirror-Image Photoswitching of Individual Single-Walled Carbon Nanotube Transistors Coated with Titanium Dioxide. <i>Angewandte Chemie</i> , 2009 , 121, 4853-4856	3.6 9
236	Mirror-image photoswitching of individual single-walled carbon nanotube transistors coated with titanium dioxide. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4759-62	16.4 42
235	Fabrication of metal suspending nanostructures by nanoimprint lithography (NIL) and isotropic reactive ion etching (RIE). <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 1181-1186	3
234	Nanobarrier-terminated growth of single-walled carbon nanotubes on quartz surfaces. <i>Nano Research</i> , 2009 , 2, 768	10 16
233	Tunable hybrid photodetectors with superhigh responsivity. <i>Small</i> , 2009 , 5, 2371-6	11 74
232	Direct growth of semiconducting single-walled carbon nanotube array. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14642-3	16.4 134
231	Growth of Single-Walled Carbon Nanotubes on Surface with Controlled Structures. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1204, 1	
230	Tuning the Diameter of Single-Walled Carbon Nanotubes by Temperature-Mediated Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13051-13059	3.8 30
229	One-Step in Situ Synthesis of Poly(methyl methacrylate)-Grafted Single-Walled Carbon Nanotube Composites. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9670-9675	3.8 29
228	Chirality-dependent transport properties of double-walled nanotubes measured in situ on their field-effect transistors. <i>Journal of the American Chemical Society</i> , 2009 , 131, 62-3	16.4 72
227	Grow Single-Walled Carbon Nanotubes Cross-Bar in One Batch. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5341-5344	3.8 24
226	Graphene as a substrate to suppress fluorescence in resonance Raman spectroscopy. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9890-1	16.4 395
225	Raman spectroscopy of strained single-walled carbon nanotubes. <i>Chemical Communications</i> , 2009 , 6902-3	60

224	"Cloning" of single-walled carbon nanotubes via open-end growth mechanism. <i>Nano Letters</i> , 2009 , 9, 1673-7	11.5	170
223	Electroluminescence from suspended and on-substrate metallic single-walled carbon nanotubes. <i>Nano Letters</i> , 2009 , 9, 1747-51	11.5	25
222	Selective positioning and integration of individual single-walled carbon nanotubes. <i>Nano Letters</i> , 2009 , 9, 205-9	11.5	42
221	Electrochemical identification of metallic and semiconducting single-walled carbon nanotubes using the water gate effect. <i>Chemical Communications</i> , 2009 , 2550-2	5.8	1
220	Free-standing TiO ₂ nanotube arrays made by anodic oxidation and ultrasonic splitting. <i>Nanotechnology</i> , 2008 , 19, 365708	3.4	63
219	G-band Variation of Individual Single-Walled Carbon Nanotubes under Torsional Strain. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10789-10793	3.8	11
218	Reflectance spectra of individual single-walled carbon nanotubes. <i>Nanotechnology</i> , 2008 , 19, 045708	3.4	8
217	Single Gold-Nanoparticle-Enhanced Raman Scattering of Individual Single-Walled Carbon Nanotubes via Atomic Force Microscope Manipulation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7119-7123	3.8	56
216	Transferring and Identification of Single- and Few-Layer Graphene on Arbitrary Substrates. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17741-17744	3.8	433
215	Atomic force microscope manipulation of gold nanoparticles for controlled Raman enhancement. <i>Applied Physics Letters</i> , 2008 , 92, 023109	3.4	29
214	Fabrication of electromechanical switch using interconnected single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2008 , 92, 103116	3.4	15
213	Structure, Physical Properties and Phase Transition of a Quasi-One-Dimensional Organic Semiconductor DBA(TCNQ) ₂ . <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11001-11006	3.8	15
212	Modulation of the Structure and Electronic Density of Molecular Chains on Organic Conductor Surfaces. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1090-1093	3.8	3
211	Systematic Comparison of the Raman Spectra of Metallic and Semiconducting SWNTs. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 8319-8323	3.8	24
210	Thermochemical Hole Burning on TEA(TCNQ) ₂ Single Crystal at Varied Temperatures in UHV System. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 2004-2007	3.8	4
209	Creation of nanostructures with poly(methyl methacrylate)-mediated nanotransfer printing. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12612-3	16.4	250
208	Manipulation of Ultralong Single-Walled Carbon Nanotubes at Macroscale. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9963-9965	3.8	12
207	Fabrication of Carbon Nanotube Diode with Atomic Force Microscopy Manipulation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7544-7546	3.8	5

206	Electrochemical Identification of Metallic and Semiconducting Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13346-13348	3.8	12
205	Chirality-Dependent Raman Frequency Variation of Single-Walled Carbon Nanotubes under Uniaxial Strain. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 20123-20125	3.8	36
204	The fabrication of subwavelength anti-reflective nanostructures using a bio-templete. <i>Nanotechnology</i> , 2008 , 19, 095605	3.4	78
203	Thermochemical hole burning performance of TCNQ-based charge transfer complexes with different electrical conductivities. <i>Nanotechnology</i> , 2008 , 19, 235303	3.4	1
202	An electrical switch based on Ag-tetracyanoquinodimethane sandwiched by crossed carbon nanotube electrodes. <i>Applied Physics Letters</i> , 2008 , 93, 123115	3.4	12
201	Fabrication of F0F1-ATPase nanostructure on gold surface through Dip-Pen nanolithography. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 5753-6	1.3	3
200	Sorting out Semiconducting Single-Walled Carbon Nanotube Arrays by Preferential Destruction of Metallic Tubes Using Xenon-Lamp Irradiation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3849-3856	3.8	85
199	Raman Spectra Variation of Partially Suspended Individual Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1983-1987	3.8	48
198	A General Approach to Chemical Modification of Single-Walled Carbon Nanotubes with Peroxy Organic Acids and Its Application in Polymer Grafting. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2379-2385	3.8	17
197	Anisotropic Thermochemical Hole Burning Phenomenon on TTF/TCNQ Single Crystal. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 631-635	3.8	12
196	Resonant Raman spectroscopy of individual strained single-wall carbon nanotubes. <i>Nano Letters</i> , 2007 , 7, 2116-21	11.5	51
195	Temperature Coefficients of Raman Frequency of Individual Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14031-14034	3.8	38
194	Raman spectral probing of electronic transition energy Eii variation of individual SWNTs under torsional strain. <i>Nano Letters</i> , 2007 , 7, 750-3	11.5	23
193	Two distinct buckling modes in carbon nanotube bending. <i>Nano Letters</i> , 2007 , 7, 143-8	11.5	57
192	Laser-Heating Effect on Raman Spectra of Individual Suspended Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1988-1992	3.8	33
191	A New Route to Large-Scale Synthesis of Silicon Nanowires in Ultrahigh Vacuum. <i>Advanced Functional Materials</i> , 2007 , 17, 1729-1734	15.6	14
190	Formation of nanogaps by nanoscale Cu electrodeposition and dissolution. <i>Electrochimica Acta</i> , 2007 , 52, 4210-4214	6.7	5
189	Temperature-mediated growth of single-walled carbon-nanotube intramolecular junctions. <i>Nature Materials</i> , 2007 , 6, 283-6	27	215

188	Laser irradiation induced spectral evolution of the surface-enhanced raman scattering (SERS) of 4-tert-butylbenzylmercaptan on gold nanoparticles assembly. <i>Science in China Series B: Chemistry</i> , 2007 , 50, 520-525		4
187	Strain and friction induced by van der Waals interaction in individual single walled carbon nanotubes. <i>Applied Physics Letters</i> , 2007 , 90, 253113	3.4	21
186	One-step seed-mediated growth of 30-50 nm quasispherical gold nanoparticles with 2-mercaptosuccinic acid as a new reducing agent. <i>Nanotechnology</i> , 2007 , 18, 325607	3.4	74
185	Precise replication of antireflective nanostructures from biotemplates. <i>Applied Physics Letters</i> , 2007 , 90, 123115	3.4	16
184	Photoluminescence recovery from single-walled carbon nanotubes on substrates. <i>Journal of the American Chemical Society</i> , 2007 , 129, 12382-3	16.4	18
183	Raman Spectral Measuring of the Growth Rate of Individual Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 8407-8409	3.8	22
182	The role of CopG mediated DNA bending on the regulation of the β -4-dependent promoters in E. coli. <i>Science Bulletin</i> , 2006 , 51, 934-940		
181	Scanning probe lithography for nanoimprinting mould fabrication. <i>Nanotechnology</i> , 2006 , 17, 3018-3022	3.4	15
180	Controllable synthesis of conducting polypyrrole nanostructures. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1158-65	3.4	353
179	Simultaneous dielectrophoretic separation and assembly of single-walled carbon nanotubes on multigap nanoelectrodes and their thermal sensing properties. <i>Analytical Chemistry</i> , 2006 , 78, 8069-75	7.8	25
178	Cicada wings: a stamp from nature for nanoimprint lithography. <i>Small</i> , 2006 , 2, 1440-3	11	220
177	Formation mechanism of nonspherical gold nanoparticles during seeding growth: roles of anion adsorption and reduction rate. <i>Journal of Colloid and Interface Science</i> , 2006 , 293, 69-76	9.3	41
176	Electrochemical deposition of Prussian blue on hydrogen terminated silicon(111). <i>Thin Solid Films</i> , 2006 , 515, 1847-1850	2.2	17
175	Electric-field-enhanced assembly of single-walled carbon nanotubes on a solid surface. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 5473-7	3.4	56
174	Thermochemical hole burning on a series of N-substituted morpholinium 7,7,8,8-tetracyanoquinodimethane charge-transfer complexes for data storage. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 22486-90	3.4	21
173	Substrate-induced Raman frequency variation for single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17156-7	16.4	96
172	Electrochemistry at chemically assembled single-wall carbon nanotube arrays. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20906-13	3.4	72
171	CVD growth of N-doped carbon nanotubes on silicon substrates and its mechanism. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 9275-9	3.4	63

170	Frustrated molecular packing in highly ordered smectic phase of side-chain liquid crystalline polymer with rigid polyacetylene backbone. <i>Journal of the American Chemical Society</i> , 2005 , 127, 7668-9	16.4	47
169	Surfactant-resisted assembly of Fe-containing nanoparticles for site-specific growth of SWNTs on Si surface. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 10946-51	3.4	13
168	Single-walled carbon nanotube-based coaxial nanowires: synthesis, characterization, and electrical properties. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 1101-7	3.4	68
167	Nano-welding by scanning probe microscope. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8268-9	16.4	41
166	Reproducible patterning of single au nanoparticles on silicon substrates by scanning probe oxidation and self-assembly. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 2657-65	3.4	35
165	Purification and length separation of single-walled carbon nanotubes using chromatographic method. <i>Synthetic Metals</i> , 2005 , 155, 455-460	3.6	34
164	Thermochemical hole burning on a triethylammonium bis-7,7,8,8-tetracyanoquinodimethane charge-transfer complex using single-walled carbon nanotube scanning tunneling microscopy tips. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3526-30	3.4	22
163	Controllable interconnection of single-walled carbon nanotubes under ac electric field. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11420-3	3.4	56
162	Ribbon- and boardlike nanostructures of nickel hydroxide: synthesis, characterization, and electrochemical properties. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7654-8	3.4	130
161	Large-scale fabrication of uniform gold nanoparticles in ultrahigh vacuum. <i>Journal of Crystal Growth</i> , 2005 , 285, 372-379	1.6	9
160	Chemical modification of single-walled carbon nanotubes with peroxytrifluoroacetic acid. <i>Carbon</i> , 2005 , 43, 1470-1478	10.4	111
159	Conducting polymer/carbon nanotube composite films made by in situ electropolymerization using an ionic surfactant as the supporting electrolyte. <i>Carbon</i> , 2005 , 43, 2186-2191	10.4	70
158	Surface-enhanced Raman scattering of p-aminothiophenol on a Au(core)/Cu(shell) nanoparticle assembly. <i>ChemPhysChem</i> , 2005 , 6, 913-8	3.2	77
157	Finely tuning metallic nanogap size with electrodeposition by utilizing high-frequency impedance in feedback. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 7771-5	16.4	28
156	Finely Tuning Metallic Nanogap Size with Electrodeposition by Utilizing High-Frequency Impedance in Feedback. <i>Angewandte Chemie</i> , 2005 , 117, 7949-7953	3.6	2
155	Scanning-Tunneling-Microscopy Based Thermochemical Hole Burning on a New Charge-Transfer Complex and Its Potential for Data Storage. <i>Advanced Materials</i> , 2005 , 17, 459-464	24	29
154	Tubular composite of doped polyaniline with multi-walled carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 80, 1813-1817	2.6	75
153	Fabrication of silicon-based multilevel nanostructures via scanning probe oxidation and anisotropic wet etching. <i>Nanotechnology</i> , 2005 , 16, 422-428	3.4	69

152	Electrochemical approach for fabricating nanogap electrodes with well controllable separation. <i>Applied Physics Letters</i> , 2005 , 86, 123105	3.4	42
151	Scanning tunneling microscope-based thermochemical hole burning on a series of charge transfer complexes. <i>Applied Physics Letters</i> , 2005 , 86, 133105	3.4	9
150	Fabrication of metallic nanostructures by negative nanoimprint lithography. <i>Nanotechnology</i> , 2005 , 16, 2779-2784	3.4	10
149	Raman scattering enhancement contributed from individual gold nanoparticles and interparticle coupling. <i>Nanotechnology</i> , 2004 , 15, 357-364	3.4	161
148	Effect of hydrocarbons precursors on the formation of carbon nanotubes in chemical vapor deposition. <i>Carbon</i> , 2004 , 42, 829-835	10.4	125
147	Surfactant-directed polypyrrole/CNT nanocables: synthesis, characterization, and enhanced electrical properties. <i>ChemPhysChem</i> , 2004 , 5, 998-1002	3.2	127
146	Thionine-mediated chemistry of carbon nanotubes. <i>Carbon</i> , 2004 , 42, 287-291	10.4	133
145	Cationic surfactant directed polyaniline/CNT nanocables: synthesis, characterization, and enhanced electrical properties. <i>Carbon</i> , 2004 , 42, 1455-1461	10.4	122
144	Poly(methyl methacrylate) nanobrushes on silicon based on localized surface-initiated polymerization. <i>Applied Surface Science</i> , 2004 , 222, 338-345	6.7	23
143	Uniform Electrochemical Deposition of Copper onto Self-Assembled Gold Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 3535-3539	3.4	12
142	Inorganic/organic mesostructure directed synthesis of wire/ribbon-like polypyrrole nanostructures. <i>Chemical Communications</i> , 2004 , 1852-3	5.8	139
141	Thermochemical Hole Burning on DPA(TCNQ) ₂ and MEM(TCNQ) ₂ Charge Transfer Complexes Using a Scanning Tunneling Microscope. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 14800-14803	3.4	10
140	Solution phase synthesis of magnesium hydroxide sulfate hydrate nanoribbons. <i>Nanotechnology</i> , 2004 , 15, 1625-1627	3.4	14
139	Iron Catalysts Reactivation for Efficient CVD Growth of SWNT with Base-growth Mode on Surface. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 12665-12668	3.4	35
138	Synthesis of Nickel Hydroxide Nanoribbons with a New Phase: A Solution Chemistry Approach. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 7531-7533	3.4	83
137	Bimetallic Catalysts for the Efficient Growth of SWNTs on Surfaces. <i>Chemistry of Materials</i> , 2004 , 16, 799-805	9.6	39
136	Electrical properties of multi-walled carbon nanotube/polypyrrole nanocables: percolation-dominated conductivity. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 1965-1969	3	53
135	Low-temperature growth and properties of ZnO nanowires. <i>Applied Physics Letters</i> , 2004 , 84, 4941-4943	3.4	154

134	Synthesis and electrical properties of carbon nanotube polyaniline composites. <i>Applied Physics Letters</i> , 2004 , 85, 1796-1798	3.4	125
133	Kinetically Controlled Pt Deposition onto Self-Assembled Au Colloids: Preparation of Au (Core)Pt (Shell) Nanoparticle Assemblies. <i>Chemistry of Materials</i> , 2004 , 16, 3239-3245	9.6	49
132	Tracing the Chemical Oxidation Process of Single-walled Carbon Nanotubes by Silver Nanoparticles. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2004 , 20, 1-4	3.8	3
131	Direct fabrication of monodispersed ultrasmall CdS nanocrystals from self-assembled monolayers on Au(111) substrate. <i>Journal of Materials Science Letters</i> , 2003 , 22, 577-579		3
130	Site-Selective Assemblies of Gold Nanoparticles on an AFM Tip-Defined Silicon Template. <i>Langmuir</i> , 2003 , 19, 166-171	4	71
129	Labeling the Defects of Single-Walled Carbon Nanotubes Using Titanium Dioxide Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 2453-2458	3.4	148
128	The effect of hydrogen on the formation of nitrogen-doped carbon nanotubes via catalytic pyrolysis of acetonitrile. <i>Chemical Physics Letters</i> , 2003 , 380, 347-351	2.5	34
127	Polymerization of short single-walled carbon nanotubes into large strands. <i>Carbon</i> , 2003 , 41, 598-601	10.4	19
126	Fabrication and characterization of well-dispersed single-walled carbon nanotube/polyaniline composites. <i>Carbon</i> , 2003 , 41, 1670-1673	10.4	57
125	Bulsed CVD growth of single-walled carbon nanotubes. <i>Carbon</i> , 2003 , 41, 2876-2878	10.4	11
124	Effect of Chemical Oxidation on the Structure of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 3712-3718	3.4	944
123	Chemically assembled single-wall carbon nanotubes and their electrochemistry. <i>ChemPhysChem</i> , 2002 , 3, 898-901	3.2	91
122	Immobilizing shortened single-walled carbon nanotubes (SWNTs) on gold using a surface condensation method. <i>Journal of Colloid and Interface Science</i> , 2002 , 245, 311-8	9.3	81
121	Study on the delicate nanostructures formed on Au(111) by scanning tunneling microscopy (STM). <i>Microelectronic Engineering</i> , 2002 , 63, 381-389	2.5	6
120	Possible tactics to improve the growth of single-walled carbon nanotubes by chemical vapor deposition. <i>Carbon</i> , 2002 , 40, 2693-2698	10.4	63
119	Electron beam-induced structure transformation of single-walled carbon nanotubes. <i>Carbon</i> , 2002 , 40, 2282-2284	10.4	17
118	Ab Initio Studies on the Thermal Dissociation Channels of cis- and trans-Azomethane. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 6792-6801	2.8	8
117	Enrichment of Large-Diameter Single-Walled Carbon Nanotubes by Oxidative Acid Treatment. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 7160-7162	3.4	22

116	Toward the Chemistry of Carboxylic Single-Walled Carbon Nanotubes by Chemical Force Microscopy. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 4139-4144	3.4	43
115	Defect Location of Individual Single-Walled Carbon Nanotubes with a Thermal Oxidation Strategy. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 11085-11088	3.4	39
114	Evaporation-induced self-assembly of gold nanoparticles into a highly organized two-dimensional array. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 6059-6062	3.6	114
113	Growing Monodispersed PbS Nanoparticles on Self-Assembled Monolayers of 11-Mercaptoundecanoic Acid on Au(111) Substrate. <i>Langmuir</i> , 2002 , 18, 4495-4499	4	43
112	A scalable CVD synthesis of high-purity single-walled carbon nanotubes with porous MgO as support material. <i>Journal of Materials Chemistry</i> , 2002 , 12, 1179-1183		192
111	High-Density Growth of Single-Wall Carbon Nanotubes on Silicon by Fabrication of Nanosized Catalyst Thin Films. <i>Chemistry of Materials</i> , 2002 , 14, 4262-4266	9.6	9
110	Purification and Characterization of Single-Walled Carbon Nanotubes Synthesized by Chemical Vapor Deposition?. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2002 , 18, 409-413	3.8	2
109	Preparation of Au (core)-Cu (shell) Nanoparticles Assembly by Electrodeposition. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2002 , 18, 1062-1067	3.8	4
108	A Self-Assembled Monolayer of an Alkanoic Acid-Derivatized Porphyrin on Gold Surface: A Structural Investigation by Surface Plasmon Resonance, Ultraviolet-Visible, and Infrared Spectroscopies. <i>Journal of Colloid and Interface Science</i> , 2001 , 243, 382-387	9.3	27
107	Chemical Alignment of Oxidatively Shortened Single-Walled Carbon Nanotubes on Silver Surface. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 5075-5078	3.4	101
106	Photoelectric response of a gold electrode modified with self-assembled monolayers of pyrrolidinofullerenes. <i>New Journal of Chemistry</i> , 2001 , 25, 606-610	3.6	11
105	Fullerene-Terminated SAMs on Gold(111): Formation and Characterization. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2001 , 17, 978-981	3.8	2
104	Spectral Response to Protonation of 4-(4-(4-(Didodecylamino)phenylazo)phenyl)butyric Acid in Its Langmuir-Blodgett Monolayer. <i>Journal of Colloid and Interface Science</i> , 2000 , 225, 62-68	9.3	
103	Parallel molecular stacks of organic thin film with electrical bistability. <i>Applied Physics Letters</i> , 2000 , 76, 2532-2534	3.4	12
102	Formation of a Porphyrin Monolayer Film by Axial Ligation of Protoporphyrin IX Zinc to an Amino-Terminated Silanized Glass Surface. <i>Langmuir</i> , 2000 , 16, 1158-1162	4	69
101	Investigation of structure and chemical states of self-assembled Au nanoscale particles by angle-resolved X-ray photoelectron spectroscopy. <i>Surface Science</i> , 2000 , 459, 183-190	1.8	45
100	The study of the attachment of a single-walled carbon nanotube to a self-assembled monolayer using X-ray photoelectron spectroscopy. <i>Surface Science</i> , 2000 , 461, 199-207	1.8	30
99	A facile preparation of transparent and monolithic mesoporous silica materials. <i>Chemical Communications</i> , 2000 , 477-478	5.8	44

98	Organizing Single-Walled Carbon Nanotubes on Gold Using a Wet Chemical Self-Assembling Technique. <i>Langmuir</i> , 2000 , 16, 3569-3573	4	352
97	Demonstration of High-Resolution Capability of Chemical Force Titration via Study of Acid/Base Properties of a Patterned Self-Assembled Monolayer. <i>Langmuir</i> , 2000 , 16, 517-521	4	47
96	Atomic Force Microscopy Evidence of Citrate Displacement by 4-Mercaptopyridine on Gold in Aqueous Solution. <i>Langmuir</i> , 2000 , 16, 4554-4557	4	15
95	Studies on the Molecular Environment and Reaction Kinetics of Photo-Oligomerization in Langmuir-Blodgett Films of 4-(4-(2-(Octadecyloxycarbonyl)vinyl)-cinnamoylamino)benzoic Acid. <i>Langmuir</i> , 2000 , 16, 2275-2280	4	6
94	Atomic Force Microscopy-Based Nanolithography on Silicon Using Colloidal Au Nanoparticles As a Nanooxidation Mask. <i>Langmuir</i> , 2000 , 16, 9673-9676	4	29
93	Nanopatterned Assembling of Colloidal Gold Nanoparticles on Silicon. <i>Langmuir</i> , 2000 , 16, 4409-4412	4	156
92	Fabrication of Microelectrode Arrays Using Microcontact Printing. <i>Langmuir</i> , 2000 , 16, 9683-9686	4	37
91	Fabrication of Designed Architectures of Au Nanoparticles on Solid Substrate with Printed Self-Assembled Monolayers as Templates. <i>Langmuir</i> , 2000 , 16, 3846-3851	4	144
90	Molecular Orientation and Electrochemical Stability of Azobenzene Self-Assembled Monolayers on Gold: An In-Situ FTIR Study. <i>Langmuir</i> , 2000 , 16, 6948-6954	4	26
89	Preparation and Characterization of a Porphyrin Self-Assembled Monolayer with a Controlled Orientation on Gold. <i>Langmuir</i> , 2000 , 16, 537-540	4	71
88	Dependence of the Raman Intensity on the Surface Coverage of Nanoparticles in SERS-active Gold Nanoparticulate Films. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2000 , 16, 138-144	3.8	2
87	Assembling Gold Nanoparticles on Ultrasoother Silicon Surface. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2000 , 16, 202-206	3.8	3
86	Gold Nanorods Sol Prepared by Electrolysis. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2000 , 16, 956-960	3.8	5
85	Fabrication of PdIr-Coated Conductive Atomic Force Microscope Tip and its Application in Nanofabrication. <i>Molecular Crystals and Liquid Crystals</i> , 1999 , 337, 309-312		
84	AFM Lithography on Langmuir-Blodgett Film of Octadecyltrichlorosilane. <i>Molecular Crystals and Liquid Crystals</i> , 1999 , 337, 313-316		2
83	Gold Nanoparticles Assembly as the Model System in Studying Mechanisms of Surface Enhanced Raman Scattering. <i>Molecular Crystals and Liquid Crystals</i> , 1999 , 337, 237-240		2
82	Monitoring the Electrochemical Transformation of an Azobenzene-Terminated Alkanethiolate Monolayer at Gold by Chemical Force Microscopy. <i>Molecular Crystals and Liquid Crystals</i> , 1999 , 337, 305-308		6
81	Investigation of the Oxidation Effect of Porous Silicon During Electroluminescence by In Situ FTIR. <i>Molecular Crystals and Liquid Crystals</i> , 1999 , 337, 525-528		0

80	Structural investigation of a new series of azobenzene-containing self-assembled monolayers on gold. <i>Materials Science and Engineering C</i> , 1999 , 8-9, 179-185	8.3	13
79	Structural evaluation of 6-(10-mercaptodecoyl) quinoline self-assembled monolayer on gold by reflectance absorption infrared spectroscopy. <i>Materials Science and Engineering C</i> , 1999 , 8-9, 187-190	8.3	2
78	Study on the surface dissociation properties of 6-(10-mercaptodecaoxyl)quinoline self-assembled monolayer on gold by chemical force titration. <i>Materials Science and Engineering C</i> , 1999 , 8-9, 191-194	8.3	5
77	The 6-(10-Mercaptodecoyl)quinoline Self-Assembled Monolayer on Gold: Spectroscopy and Wettability Investigation. <i>Journal of Colloid and Interface Science</i> , 1999 , 214, 46-52	9.3	4
76	pH-Dependent Adsorption of Gold Nanoparticles on p-Aminothiophenol-Modified Gold Substrates. <i>Langmuir</i> , 1999 , 15, 5197-5199	4	94
75	Irreversible Adsorption and Reduction of p-Nitrothio-Phenol Monolayers on Gold: Electrochemical in Situ Surface Enhanced Raman Spectroscopy. <i>Molecular Crystals and Liquid Crystals</i> , 1999 , 337, 241-244		2
74	In situ CdS nanocluster formation on scanning tunneling microscopy tips for reliable single-electron tunneling at room temperature. <i>Applied Physics Letters</i> , 1999 , 75, 3023-3025	3.4	15
73	Determination of locations of sulfur, amide-nitrogen and azo-nitrogen in self-assembled monolayers of alkanethiols and azobenzenethiols on Au (111) and GaAs (100) by angle-resolved X-ray photoelectron spectroscopy. <i>Surface Science</i> , 1999 , 440, 142-150	1.8	27
72	Surface-Enhanced Raman Scattering (SERS) from Azobenzene Self-Assembled Sandwiches□ <i>Langmuir</i> , 1999 , 15, 16-19	4	85
71	Room Temperature Single Electron Tunneling in Nanoparticle-STM Tip Assemblies. <i>Molecular Crystals and Liquid Crystals</i> , 1999 , 337, 317-320		6
70	Chemical Force Titration of Conjugated Pyridyl Group-Terminated Self-Assembled Monolayers. <i>Molecular Crystals and Liquid Crystals</i> , 1999 , 337, 301-304		3
69	SERS Titration of 4-Mercaptopyridine Self-Assembled Monolayers at Aqueous Buffer/Gold Interfaces. <i>Analytical Chemistry</i> , 1999 , 71, 1354-8	7.8	91
68	Photoinduced Dimerization of a p-Phenylenediacrylic Acid Derivative in a Langmuir Monolayer Mixed with Stearic-d35 Acid on a Water Surface. <i>Langmuir</i> , 1999 , 15, 2543-2550	4	13
67	Synthesis and pH Dependent Optical Properties of Gold Nanoparticles Capped with Mercaptopropionic Acid. <i>Molecular Crystals and Liquid Crystals</i> , 1999 , 337, 245-248		9
66	The SERS Intensity vs the Size of Au Nanoparticles. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 1999 , 15, 476-480	3.8	7
65	Covalent Attachment of Gold Nanoparticles onto the Thiol-terminated Surface through Au-S Bonding. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 1999 , 15, 961-965	3.8	4
64	Preparation of Gold Sols of Large Size Particles. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 1999 , 15, 966-970	3.8	3
63	Force titration of amino group-terminated self-assembled monolayers using chemical force microscopy. <i>Applied Physics A: Materials Science and Processing</i> , 1998 , 66, S269-S271	2.6	64

62	SPM-based nanofabrication using a synchronization technique. <i>Applied Physics A: Materials Science and Processing</i> , 1998 , 66, S715-S717	2.6	11
61	Effect of the molecular interaction on molecular packing and orientation in azobenzene-functionalized self-assembled monolayers on gold. <i>Thin Solid Films</i> , 1998 , 327-329, 195-198 ^{2.2}	2.2	8
60	Surface-enhanced infrared spectra of azobenzene LB monolayers on silver island film. <i>Thin Solid Films</i> , 1998 , 327-329, 287-290	2.2	1
59	Gold nanoparticulate film bound to silicon surface with self-assembled monolayers. <i>Thin Solid Films</i> , 1998 , 327-329, 591-594	2.2	45
58	Assembling colloidal Au nanoparticles with functionalized self-assembled monolayers. <i>Thin Solid Films</i> , 1998 , 327-329, 595-598	2.2	48
57	Force titration of amino group-terminated self-assembled monolayers of 4-aminothiophenol on gold using chemical force microscopy. <i>Thin Solid Films</i> , 1998 , 327-329, 778-780	2.2	36
56	Theoretical studies on force titration of amino-group-terminated self-assembled monolayers. <i>Computational and Theoretical Chemistry</i> , 1998 , 451, 295-303		7
55	Quantum confinement effect in electroluminescent porous silicon. <i>Science in China Series B: Chemistry</i> , 1998 , 41, 337-344		1
54	Direct-nanolithography on gelatin film using scanning near-field optical microscopy. <i>Optics Communications</i> , 1998 , 146, 21-24	2	5
53	Constructing different 'bridges' for interfacial electron transfer in azobenzene LB/SAM composite bilayers. <i>Journal of Electroanalytical Chemistry</i> , 1998 , 448, 119-124	4.1	13
52	Electrochemical quartz crystal microbalance studies on the two reduction processes of conducting polypyrrole nitrate films in aqueous solutions. <i>Synthetic Metals</i> , 1998 , 94, 131-133	3.6	12
51	A Direct Experimental Evidence of Collective Electron Resonance Mechanism of Surface Enhanced Infrared Spectroscopy (Seirs). <i>Spectroscopy Letters</i> , 1998 , 31, 787-796	1.1	1
50	Studies on the Surface-Enhanced Infrared Spectroscopy of Langmuir-Blodgett Monolayers of Azobenzene Carboxylic Acid on Silver Island Films. <i>Langmuir</i> , 1998 , 14, 5521-5525	4	12
49	Monitoring Electron Transfer in an Azobenzene Self-Assembled Monolayer by in Situ Infrared Reflection Absorption Spectroscopy. <i>Langmuir</i> , 1998 , 14, 619-624	4	30
48	Two-peak electroluminescence of porous silicon in persulphate solution. <i>Applied Physics Letters</i> , 1998 , 72, 924-926	3.4	
47	Fabrication and Structural Characterization of Azobenzene Monolayer on Silver Island Films By LB and SA Techniques. <i>Molecular Crystals and Liquid Crystals</i> , 1998 , 314, 297-302		
46	Study of Chemical Enhancement in SERS from Au Nanoparticles Assembly. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 1998 , 14, 485-489	3.8	4
45	pH-Dependent Assembling of Gold Nanoparticles on p-Aminothiophenol Modified Gold Substrate. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 1998 , 14, 968-974	3.8	5

44	State of the Tunneling Mechanism for Long Range Electron Transfer in Azobenzene Self-assembled Monolayers. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 1998 , 14, 772-777	3.8	2
43	Developing High Resolution Electrical Probing System Based on Atomic Force Microscopy. <i>Molecular Crystals and Liquid Crystals</i> , 1997 , 294, 91-94		2
42	Design of photochromic and electrochemical active azosilane self-assembled monolayer. <i>Science Bulletin</i> , 1997 , 42, 1161-1164		1
41	Fabricating an azobenzene self-assembled monolayer via step-by-step surface modification of a cysteamine monolayer on gold. <i>Journal of Electroanalytical Chemistry</i> , 1997 , 438, 221-224	4.1	33
40	Photochromic and electrochemical behavior of a crown-ether-derived azobenzene monolayer assembly. <i>Journal of Electroanalytical Chemistry</i> , 1997 , 438, 127-131	4.1	15
39	Structural evaluation of azobenzene-functionalized self-assembled monolayers on gold by reflectance FTIR spectroscopy. <i>Chemical Physics Letters</i> , 1997 , 271, 90-94	2.5	20
38	New Approach on the Synthesis of Functionalized Alkanethiols and the Structural Characterization of Their Self-Assembled Monolayers. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 1997 , 13, 515-524	3.8	3
37	Electrochemistry of cis-Azobenzene Chromophore in Coulombically Linked Self-Assembled Monolayer/Langmuir-Blodgett Composite Monolayers. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 17337-17344		40
36	Langmuir-Blodgett Films and Photophysical Properties of a C60-Barcosine Methyl Ester Derivative, C60(C5H9NO2). <i>The Journal of Physical Chemistry</i> , 1996 , 100, 3150-3156		35
35	Further evidence for the quantum confined electrochemistry model of the formation mechanism of p-type porous silicon. <i>Applied Physics Letters</i> , 1996 , 69, 3399-3401	3.4	10
34	The Adsorption Kinetics and Characterization of Azobenzene Self-Assembled Monolayers on Gold. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 1996 , 12, 581-588	3.8	4
33	Two-peak photoluminescence and light-emitting mechanism of porous silicon. <i>Physical Review B</i> , 1995 , 51, 11194-11197	3.3	14
32	Azobenzene-Derivative Langmuir-Blodgett Films Deposited on Various Thiol Monolayers. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 14771-14777		23
31	Langmuir-Blodgett film and nonlinear optical property of C60-glycine ester derivative. <i>Chemical Physics Letters</i> , 1995 , 235, 548-551	2.5	20
30	Oxidation kinetics of a Ru(bpy)3 ³⁺ derivative in Langmuir-Blodgett layers. Comparison to Ru(bpy)3 ³⁺ in homogeneous solutions. <i>Langmuir</i> , 1993 , 9, 818-823	4	8
29	Scanning tunneling microscopic and transmission electron microscopic studies of cytochrome c551 denaturation at the air/water interface. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1993 , 11, 1766		9
28	Electrochemical counting of photon number using the assembled monolayer film of azo compound. <i>Sensors and Actuators B: Chemical</i> , 1993 , 13, 226-229	8.5	4
27	Kinetic studies on the thermal cis-trans isomerization of an azo compound in the assembled monolayer film. <i>The Journal of Physical Chemistry</i> , 1992 , 96, 1875-1880		59

26	Unique reactions of photoexcited organic molecules at the electrode/liquid interface. <i>Faraday Discussions</i> , 1992 , 94, 221	3.6	6
25	Electrochemical actinometry using the assembled monolayer film of an azo compound. <i>Analytical Chemistry</i> , 1992 , 64, 134-137	7.8	18
24	New applications of electrochemical techniques. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1992 , 65, 285-292	4.7	5
23	Difference between the electrochemical reductivities of trans and cis isomers of an azo compound in the assembled monolayer film. <i>Journal of Electroanalytical Chemistry</i> , 1992 , 324, 259-267	4.1	34
22	A novel photoelectrochemical hybrid one-way process observed in the azobenzene system. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991 , 297, 133-144		50
21	The right way. <i>Nature</i> , 1991 , 351, 193-193	50.4	3
20	Thermal cis/trans isomerization kinetics of azo compound in the assembled monolayer film: an electrochemical approach. <i>Chemical Physics Letters</i> , 1991 , 185, 501-504	2.5	6
19	Excellent Reversible Photochromic Behavior of 4-Octyl-4'-(5-carboxypentamethyleneoxy)-azobenzene in Organized Monolayer Assemblies. <i>Chemistry Letters</i> , 1990 , 19, 1023-1026	1.7	30
18	Observation of Tip-Induced Ordered Molecular Arrangement on Graphite Surfaces by Scanning Tunneling Microscopy. <i>Chemistry Letters</i> , 1990 , 19, 17-20	1.7	1
17	A Novel Electrochemical Quantification Method for Trans/Cis Interconversion of Azo Compounds in a Solid Monolayer Film. <i>Chemistry Letters</i> , 1990 , 19, 2177-2180	1.7	19
16	Photoelectrochemical information storage using an azobenzene derivative. <i>Nature</i> , 1990 , 347, 658-660	50.4	506
15	Scanning tunneling microscopic images of an azobenzene derivative differently deposited on highly oriented pyrolytic graphite surfaces. <i>Surface Science</i> , 1990 , 227, 1-6	1.8	17
14	Photoelectrochemical behavior of an azobenzene derivative in Langmuir-Blodgett films: Enhanced reduction via the participation of its excited states. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989 , 270, 437-443		6
13	The role of Cu crystallographic orientations towards growing superclean graphene on meter-sized scale. <i>Nano Research</i> , 1	10	0
12	In situ separator modification via CVD-derived N-doped carbon for highly reversible Zn metal anodes. <i>Nano Research</i> , 1	10	6
11	Vertical graphene-coated Cu wire for enhanced tolerance to high current density in power transmission. <i>Nano Research</i> , 1	10	5
10	Electric Current Aligning Component Units during Graphene Fiber Joule Heating. <i>Advanced Functional Materials</i> , 2103493	15.6	10
9	Tunable and highly sensitive temperature sensor based on graphene photonic crystal fiber. <i>Chinese Physics B</i> ,	1.2	2

8	Biomass Template Derived Boron/Oxygen Co-Doped Carbon Particles as Advanced Anodes for Potassium-Ion Batteries. <i>Energy and Environmental Materials</i> ,	13	4
7	Identifying the Evolution of Selenium-Vacancy-Modulated MoSe ₂ Precatalyst in Lithium-Sulfur Chemistry. <i>Angewandte Chemie</i> ,	3.6	3
6	Toward Direct Growth of Ultra-Flat Graphene. <i>Advanced Functional Materials</i> ,2200428	15.6	0
5	Direct Plasma-Enhanced-Chemical-Vapor-Deposition Syntheses of Vertically Oriented Graphene Films on Functional Insulating Substrates for Wide-Range Applications. <i>Advanced Functional Materials</i> ,2202026	15.6	0
4	The Rise of Graphene Photonic Crystal Fibers. <i>Advanced Functional Materials</i> ,2202282	15.6	
3	Toward batch synthesis of high-quality graphene by cold-wall chemical vapor deposition approach. <i>Nano Research</i> ,1	10	0
2	Ultra-broadband Strong Electromagnetic Interference Shielding with Ferromagnetic Graphene Quartz Fabric. <i>Advanced Materials</i> ,2202982	24	3
1	Complementary Chemical Vapor Deposition Fabrication for Large-Area Uniform Graphene Glass Fiber Fabric. <i>Small Methods</i> ,2200499	12.8	2