

Mauricio Terrones

List of Publications by Year in Descending Order

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

694
papers

56,038
citations

116
h-index

216
g-index

751
ext. papers

62,022
ext. citations

9.2
avg, IF

7.57
L-index

#	Paper	IF	Citations
694	Data Science Applied to Carbon Materials: Synthesis, Characterization, and Applications (Adv. Theory Simul. 2/2022). <i>Advanced Theory and Simulations</i> , 2022 , 5, 2270004	3.5	
693	Understanding the influence of nanocarbon conducting modes on the rate performance of LiFePO ₄ cathodes in lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2022 , 905, 164205	5.7	1
692	Graphene oxide-CuFe ₂ O ₄ nanohybrid material as an adsorbent of Congo red dye. <i>Carbon Trends</i> , 2022 , 7, 100147	0	0
691	Room-temperature Observation of Near-intrinsic Exciton Linewidth in Monolayer WS ₂ . <i>Advanced Materials</i> , 2022 , e2108721	24	2
690	Broadband, Ultra-High-Responsive Monolayer MoS ₂ /SnS Quantum-Dot-Based Mixed-Dimensional Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	4
689	Evolution of spectroscopy features in layered MoS _x Se _(2-x) solid solutions. <i>Materials Research Express</i> , 2022 , 9, 046301	1.7	
688	Large-scale preparation of electrically conducting cellulose nanofiber/carbon nanotube aerogels: Ambient-dried, recyclable, and 3D-Printable. <i>Carbon</i> , 2022 , 194, 23-33	10.4	0
687	Coaxial fabrication of Ni-Co layered double hydroxide into 3D carbon nanotube networks for high-performance flexible fiber supercapacitors. <i>Journal of Alloys and Compounds</i> , 2022 , 909, 164664	5.7	2
686	Room-Temperature Observation of Near-Intrinsic Exciton Linewidth in Monolayer WS ₂ (Adv. Mater. 15/2022). <i>Advanced Materials</i> , 2022 , 34, 2270115	24	
685	Low temperature activation of inert hexagonal boron nitride for metal deposition and single atom catalysis. <i>Materials Today</i> , 2021 ,	21.8	5
684	Origin of the complex Raman tensor elements in single-layer triclinic ReSe ₂ . <i>2D Materials</i> , 2021 , 8, 025002	9.9	3
683	Monolayer MoS ₂ on sapphire: an azimuthal reflection high-energy electron diffraction perspective. <i>2D Materials</i> , 2021 , 8, 025003	5.9	11
682	Colloidal Nanostructures of Transition-Metal Dichalcogenides. <i>Accounts of Chemical Research</i> , 2021 , 54, 1517-1527	24.3	9
681	Quantification and Healing of Defects in Atomically Thin Molybdenum Disulfide: Beyond the Controlled Creation of Atomic Defects. <i>ACS Nano</i> , 2021 , 15, 9658-9669	16.7	11
680	Direct growth of monolayer 1T $\bar{1}$ H MoS ₂ heterostructures using KCl-assisted CVD process. <i>2D Materials</i> , 2021 , 8, 025033	5.9	4
679	Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres. <i>Advanced Materials</i> , 2021 , 33, e2007236	24	5
678	Nanocarbons 2021 , 885-944		

677	Second- and third-order optical susceptibilities across excitons states in 2D monolayer transition metal dichalcogenides. <i>2D Materials</i> , 2021 , 8, 035010	5.9	9
676	Multiple excitations and temperature study of the disorder-induced Raman bands in MoS ₂ . <i>2D Materials</i> , 2021 , 8, 035042	5.9	2
675	Dielectric Nanospheres: Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres (Adv. Mater. 20/2021). <i>Advanced Materials</i> , 2021 , 33, 2170153	24	0
674	Light-Controlled Room Temperature Ferromagnetism in Vanadium-Doped Tungsten Disulfide Semiconducting Monolayers. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100030	6.4	7
673	Single-Step Direct Laser Writing of Multimetal Oxygen Evolution Catalysts from Liquid Precursors. <i>ACS Nano</i> , 2021 , 15, 9796-9807	16.7	4
672	Luminescence enhancement and Raman characterization of defects in WS ₂ monolayers treated with low-power N ₂ plasma. <i>Applied Surface Science</i> , 2021 , 535, 147685	6.7	3
671	Microwave plasma-induced growth of vertical graphene from fullerene soot. <i>Carbon</i> , 2021 , 172, 26-30	10.4	3
670	Ultralight Flexible Electrodes of Nitrogen-Doped Carbon Macrotube Sponges for High-Performance Supercapacitors. <i>Small</i> , 2021 , 17, e2004827	11	20
669	Interaction of gases with monolayer WS: an spectroscopy study. <i>Nanoscale</i> , 2021 , 13, 11470-11477	7.7	4
668	Confined Crack Propagation in MoS Monolayers by Creating Atomic Vacancies. <i>ACS Nano</i> , 2021 , 15, 12101-12116	16.7	6
667	Graphene Oxide Membranes for Water Filtration. <i>Membrane</i> , 2021 , 46, 184-186	0	
666	Photodegradation Protection in 2D In-Plane Heterostructures Revealed by Hyperspectral Nanoimaging: The Role of Nanointerface 2D Alloys. <i>ACS Nano</i> , 2021 , 15, 2447-2457	16.7	5
665	Atomistic-Scale Simulations on Graphene Bending Near a Copper Surface. <i>Catalysts</i> , 2021 , 11, 208	4	2
664	Graphene oxide membranes for lactose-free milk. <i>Carbon</i> , 2021 , 181, 118-129	10.4	5
663	Multi-walled carbon nanotubes enhance the genetic transformation of <i>Bifidobacterium longum</i> . <i>Carbon</i> , 2021 , 184, 902-909	10.4	0
662	Wafer-Scale Epitaxial Growth of Unidirectional WS Monolayers on Sapphire. <i>ACS Nano</i> , 2021 , 15, 2532-2541	16.7	51
661	Secure Electronics Enabled by Atomically Thin and Photosensitive Two-Dimensional Memtransistors.. <i>ACS Nano</i> , 2021 , 15, 19815-19827	16.7	5
660	Spin-dependent vibronic response of a carbon radical ion in two-dimensional WS.. <i>Nature Communications</i> , 2021 , 12, 7287	17.4	2

659	A perspective on two-dimensional van der Waals opto-spin-caloritronics. <i>Applied Physics Letters</i> , 2021 , 119, 250501	3.4	4
658	Hollow Graphene-Microtubes using polyacrylonitrile nanofiber template and potential applications of field emission. <i>Carbon</i> , 2020 , 167, 439-445	10.4	1
657	Controlled synthesis of N-type single-walled carbon nanotubes with 100% of quaternary nitrogen. <i>Carbon</i> , 2020 , 167, 881-887	10.4	6
656	Banning carbon nanotubes would be scientifically unjustified and damaging to innovation. <i>Nature Nanotechnology</i> , 2020 , 15, 164-166	28.7	40
655	Universal Substitutional Doping of Transition Metal Dichalcogenides by Liquid-Phase Precursor-Assisted Synthesis. <i>ACS Nano</i> , 2020 , 14, 4326-4335	16.7	44
654	Strain Modulated Superlattices in Graphene. <i>Nano Letters</i> , 2020 , 20, 3113-3121	11.5	21
653	Temperature-Dependent RF Characteristics of Al ₂ O ₃ -Passivated WSe ₂ -MOSFETs. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1134-1137	4.4	
652	Mouse pulmonary dose- and time course-responses induced by exposure to nitrogen-doped multi-walled carbon nanotubes. <i>Inhalation Toxicology</i> , 2020 , 32, 24-38	2.7	4
651	Rapid Size-Based Isolation of Extracellular Vesicles by Three-Dimensional Carbon Nanotube Arrays. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13134-13139	9.5	8
650	Interface-mediated noble metal deposition on transition metal dichalcogenide nanostructures. <i>Nature Chemistry</i> , 2020 , 12, 284-293	17.6	42
649	Carbon science perspective in 2020: Current research and future challenges. <i>Carbon</i> , 2020 , 161, 373-391	10.4	35
648	Heteroatom doping of two-dimensional materials: From graphene to chalcogenides. <i>Nano Today</i> , 2020 , 30, 100829	17.9	45
647	Pyrolic nitrogen-doped multiwall carbon nanotubes using ball-milled slag-SiC mixtures as a catalyst by aerosol assisted chemical vapor deposition. <i>Materials Research Express</i> , 2020 ,	1.7	3
646	The amorphization of metal nanoparticles in graphitic shells under laser pulses. <i>Carbon</i> , 2020 , 161, 495-501	10.4	3
645	Functional hetero-interfaces in atomically thin materials. <i>Materials Today</i> , 2020 , 37, 74-92	21.8	10
644	Surfactant-Mediated Growth and Patterning of Atomically Thin Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2020 , 14, 6570-6581	16.7	16
643	Facile synthesis of graphene sheets intercalated by carbon spheres for high-performance supercapacitor electrodes. <i>Carbon</i> , 2020 , 167, 11-18	10.4	8
642	The effects of substitutional Fe-doping on magnetism in MoS ₂ and WS ₂ monolayers. <i>Nanotechnology</i> , 2020 ,	3.4	6

641	Structural instability-induced high-performance NiFe layered double hydroxides as oxygen evolution reaction catalysts for pH-near-neutral borate electrolyte: The role of intercalates. <i>Applied Catalysis B: Environmental</i> , 2020 , 263, 118343	21.8	21
640	A rapid and label-free platform for virus capture and identification from clinical samples. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 895-901	11.5	99
639	Defect creation in WSe with a microsecond photoluminescence lifetime by focused ion beam irradiation. <i>Nanoscale</i> , 2020 , 12, 2047-2056	7.7	13
638	Epitaxial growth of few-layer E _n 2Se ₃ thin films by metalorganic chemical vapor deposition. <i>Journal of Crystal Growth</i> , 2020 , 533, 125471	1.6	8
637	Controlled Fragmentation of Single-Atom-Thick Polycrystalline Graphene. <i>Matter</i> , 2020 , 2, 666-679	12.7	30
636	Nonlinear Dark-Field Imaging of One-Dimensional Defects in Monolayer Dichalcogenides. <i>Nano Letters</i> , 2020 , 20, 284-291	11.5	21
635	Scalable BEOL compatible 2D tungsten diselenide. <i>2D Materials</i> , 2020 , 7, 015029	5.9	25
634	Improved supercapacitors by implanting ultra-long single-walled carbon nanotubes into manganese oxide domains. <i>Journal of Power Sources</i> , 2020 , 479, 228795	8.9	5
633	Temperature- and power-dependent phonon properties of suspended few layers of tungsten diselenide. <i>Vibrational Spectroscopy</i> , 2020 , 111, 103169	2.1	6
632	Tunable Ferromagnetism and Thermally Induced Spin Flip in Vanadium-Doped Tungsten Diselenide Monolayers at Room Temperature. <i>Advanced Materials</i> , 2020 , 32, e2003607	24	25
631	Thermal and Photo Sensing Capabilities of Mono- and Few-Layer Thick Transition Metal Dichalcogenides. <i>Micromachines</i> , 2020 , 11,	3.3	4
630	Second harmonic generation in two-dimensional transition metal dichalcogenides with growth and post-synthesis defects. <i>2D Materials</i> , 2020 , 7, 045020	5.9	6
629	The application of low-dimensional materials in virology and in the study of living organisms 2020 , 403-441		
628	Monolayer Vanadium-Doped Tungsten Disulfide: A Room-Temperature Dilute Magnetic Semiconductor. <i>Advanced Science</i> , 2020 , 7, 2001174	13.6	33
627	Spontaneous chemical functionalization via coordination of Au single atoms on monolayer MoS. <i>Science Advances</i> , 2020 , 6,	14.3	22
626	Single-atom doping of MoS with manganese enables ultrasensitive detection of dopamine: Experimental and computational approach. <i>Science Advances</i> , 2020 , 6, eabc4250	14.3	57
625	Superconductivity enhancement in phase-engineered molybdenum carbide/disulfide vertical heterostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 19685-19693	11.5	4
624	Catalysis-free transformation of non-graphitising carbons into highly crystalline graphite. <i>Communications Materials</i> , 2020 , 1,	6	4

623	Enhanced desalination performance in compacted carbon-based reverse osmosis membranes. <i>Nanoscale Advances</i> , 2020 , 2, 3444-3451	5.1	2
622	2D Materials for Universal Thermal Imaging of Micro- and Nanodevices: An Application to Gallium Oxide Electronics. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2945-2953	4	14
621	Electric field induced metallic behavior in thin crystals of ferroelectric $\text{Hn}2\text{Se}3$. <i>Applied Physics Letters</i> , 2020 , 117, 052901	3.4	8
620	Transition metal Γ Graphene oxide nanohybrid materials as counter electrodes for high efficiency quantum dot solar cells. <i>Catalysis Today</i> , 2020 , 355, 860-869	5.3	8
619	Intentional carbon doping reveals CH as an abundant charged impurity in nominally undoped synthetic WS ₂ and WSe ₂ . <i>2D Materials</i> , 2020 , 7, 031003	5.9	11
618	Defect Engineering and Surface Functionalization of Nanocarbons for Metal-Free Catalysis. <i>Advanced Materials</i> , 2019 , 31, e1805717	24	88
617	Carbon doping of WS monolayers: Bandgap reduction and p-type doping transport. <i>Science Advances</i> , 2019 , 5, eaav5003	14.3	70
616	Dark-Exciton-Mediated Fano Resonance from a Single Gold Nanostructure on Monolayer WS at Room Temperature. <i>Small</i> , 2019 , 15, e1900982	11	16
615	Electrochemically Exfoliated Graphene Electrode for High-Performance Rechargeable Chloroaluminate and Dual-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23261-23270	9.5	29
614	New Insights in the Natural Organic Matter Fouling Mechanism of Polyamide and Nanocomposite Multiwalled Carbon Nanotubes-Polyamide Membranes. <i>Environmental Science & Technology</i> , 2019 , 53, 6255-6263	10.3	27
613	Catalytic Nanocarbons: Defect Engineering and Surface Functionalization of Nanocarbons for Metal-Free Catalysis (Adv. Mater. 13/2019). <i>Advanced Materials</i> , 2019 , 31, 1970096	24	2
612	Controlling Nitrogen Doping in Graphene with Atomic Precision: Synthesis and Characterization. <i>Nanomaterials</i> , 2019 , 9,	5.4	47
611	Chemical and Bio Sensing Using Graphene-Enhanced Raman Spectroscopy. <i>Nanomaterials</i> , 2019 , 9,	5.4	15
610	Thicker carbon-nanotube/manganese-oxide hybridized nanostructures as electrodes for the creation of fiber-shaped high-energy-density supercapacitors. <i>Carbon</i> , 2019 , 154, 169-177	10.4	20
609	Dark Excitons: Dark-Exciton-Mediated Fano Resonance from a Single Gold Nanostructure on Monolayer WS ₂ at Room Temperature (Small 31/2019). <i>Small</i> , 2019 , 15, 1970164	11	
608	Few-layer graphene coated current collectors for safe and powerful lithium ion batteries. <i>Carbon</i> , 2019 , 153, 495-503	10.4	18
607	Clean Transfer of 2D Transition Metal Dichalcogenides Using Cellulose Acetate for Atomic Resolution Characterizations. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5320-5328	5.6	17
606	Nanoscale mapping of quasiparticle band alignment. <i>Nature Communications</i> , 2019 , 10, 3283	17.4	19

605	Dynamics of cleaning, passivating and doping monolayer MoS ₂ by controlled laser irradiation. <i>2D Materials</i> , 2019 , 6, 045031	5.9	24
604	Mitsui-7, heat-treated, and nitrogen-doped multi-walled carbon nanotubes elicit genotoxicity in human lung epithelial cells. <i>Particle and Fibre Toxicology</i> , 2019 , 16, 36	8.4	14
603	Interactions of Molecular Species with Graphene and Graphene Sensing 2019 , 509-533		
602	Synthesis of V-MoS ₂ Layered Alloys as Stable Li-Ion Battery Anodes. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8625-8632	6.1	10
601	Incorporating Niobium in MoS ₂ at BEOL-Compatible Temperatures and its Impact on Copper Diffusion Barrier Performance. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901055	4.6	8
600	Defect-Controlled Nucleation and Orientation of WSe on hBN: A Route to Single-Crystal Epitaxial Monolayers. <i>ACS Nano</i> , 2019 , 13, 3341-3352	16.7	70
599	Functional Pd/reduced graphene oxide nanocomposites: effect of reduction degree and doping in hydrodechlorination catalytic activity. <i>Journal of Nanoparticle Research</i> , 2019 , 21, 1	2.3	0
598	Defect-mediated selective hydrogenation of nitroarenes on nanostructured WS. <i>Chemical Science</i> , 2019 , 10, 10310-10317	9.4	14
597	Spin dependent transport in hybrid one dimensional BNC systems. <i>Semiconductor Science and Technology</i> , 2019 , 34, 015004	1.8	1
596	Nitrogen-doped porous carbon monoliths from molecular-level dispersion of carbon nanotubes into polyacrylonitrile (PAN) and the effect of carbonization process for supercapacitors. <i>Carbon</i> , 2019 , 143, 776-785	10.4	36
595	A roadmap for electronic grade 2D materials. <i>2D Materials</i> , 2019 , 6, 022001	5.9	133
594	Probing exciton species in atomically thin WS ₂ /graphene heterostructures. <i>JPhys Materials</i> , 2019 , 2, 025001	4.2	3
593	Structural and electrochemical properties of babassu coconut mesocarp-generated activated carbon and few-layer graphene. <i>Carbon</i> , 2019 , 145, 175-186	10.4	25
592	Probing the origin of lateral heterogeneities in synthetic monolayer molybdenum disulfide. <i>2D Materials</i> , 2019 , 6, 025008	5.9	2
591	Electrochemical Polishing of Two-Dimensional Materials. <i>ACS Nano</i> , 2019 , 13, 78-86	16.7	17
590	Facile 1D graphene fiber synthesis from an agricultural by-product: A silicon-mediated graphenization route. <i>Carbon</i> , 2019 , 142, 78-88	10.4	7
589	Angstrom-Size Defect Creation and Ionic Transport through Pores in Single-Layer MoS. <i>Nano Letters</i> , 2018 , 18, 1651-1659	11.5	86
588	A carbon science perspective in 2018: Current achievements and future challenges. <i>Carbon</i> , 2018 , 132, 785-801	10.4	59

587	Water Diffusion Mechanism in Carbon Nanotube and Polyamide Nanocomposite Reverse Osmosis Membranes: A Possible Percolation-Hopping Mechanism. <i>Physical Review Applied</i> , 2018 , 9,	4.3	16
586	Pyrolytic carbon supported alloying metal dichalcogenides as free-standing electrodes for efficient hydrogen evolution. <i>Carbon</i> , 2018 , 132, 512-519	10.4	15
585	Random anion distribution in MS Se (M = Mo, W) crystals and nanosheets.. <i>RSC Advances</i> , 2018 , 8, 9871-9878	9.7	2
584	Tunable Fano Resonance and Plasmon-Exciton Coupling in Single Au Nanotriangles on Monolayer WS at Room Temperature. <i>Advanced Materials</i> , 2018 , 30, e1705779	24	56
583	Carbon nanotubes and manganese oxide hybrid nanostructures as high performance fiber supercapacitors. <i>Communications Chemistry</i> , 2018 , 1,	6.3	22
582	Tunable Resonance Coupling in Single Si Nanoparticle-Monolayer WS Structures. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16690-16697	9.5	54
581	Phenomenological Modeling of Confined Phonon States in TMD Quantum Dots. <i>MRS Advances</i> , 2018 , 3, 339-344	0.7	2
580	Mechanical properties of nanocomposites reinforced by carbon nanotube sponges. <i>Journal of Materiomics</i> , 2018 , 4, 157-164	6.7	22
579	Robust water desalination membranes against degradation using high loads of carbon nanotubes. <i>Scientific Reports</i> , 2018 , 8, 2748	4.9	32
578	Solvothermal synthesis of porous conjugated polymer with high surface area for efficient adsorption of organic and biomolecules. <i>Journal of Porous Materials</i> , 2018 , 25, 1659-1668	2.4	5
577	Composites of Proteins and 2D Nanomaterials. <i>Advanced Functional Materials</i> , 2018 , 28, 1704990	15.6	31
576	Light-Emitting Transition Metal Dichalcogenide Monolayers under Cellular Digestion. <i>Advanced Materials</i> , 2018 , 30, 1703321	24	12
575	Carbon-rich shungite as a natural resource for efficient Li-ion battery electrodes. <i>Carbon</i> , 2018 , 130, 105-111	11.1	19
574	Nanoscale doping heterogeneity in few-layer WSe ₂ exfoliated onto noble metals revealed by correlated SPM and TERS imaging. <i>2D Materials</i> , 2018 , 5, 035003	5.9	14
573	Towards band structure and band offset engineering of monolayer Mo (1x) W (x) S ₂ via Strain. <i>2D Materials</i> , 2018 , 5, 015008	5.9	19
572	Nanostructured carbon materials for enhanced nitrobenzene adsorption: Physical vs. chemical surface properties. <i>Carbon</i> , 2018 , 139, 833-844	10.4	31
571	H ₂ O ₂ /UV layer-by-layer oxidation of multiwall carbon nanotubes: The Bion effect and the control of the degree of surface crystallinity and diameter. <i>Carbon</i> , 2018 , 139, 1027-1034	10.4	5
570	CO ₂ Sensing by in-situ Raman spectroscopy using activated carbon generated from mesocarp of babassu coconut. <i>Vibrational Spectroscopy</i> , 2018 , 98, 111-118	2.1	19

569	Defect Dynamics in 2-D MoS Probed by Using Machine Learning, Atomistic Simulations, and High-Resolution Microscopy. <i>ACS Nano</i> , 2018 , 12, 8006-8016	16.7	48
568	Understanding Interlayer Coupling in TMD-hBN Heterostructure by Raman Spectroscopy. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 4059-4067	2.9	18
567	Research Update: Recent progress on 2D materials beyond graphene: From ripples, defects, intercalation, and valley dynamics to straintronics and power dissipation. <i>APL Materials</i> , 2018 , 6, 080701	5.7	22
566	A Review of Defects in Metal Dichalcogenides: Doping, Alloys, Interfaces, Vacancies and Their Effects in Catalysis & Optical Emission. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1556-1557	0.5	1
565	Locally Induced Spin States on Graphene by Chemical Attachment of Boron Atoms. <i>Nano Letters</i> , 2018 , 18, 5482-5487	11.5	10
564	Effective Antiscalcing Performance of Reverse-Osmosis Membranes Made of Carbon Nanotubes and Polyamide Nanocomposites. <i>ACS Omega</i> , 2018 , 3, 6047-6055	3.9	21
563	Effect of boron doping on the electrical conductivity of metallicity-separated single walled carbon nanotubes. <i>Nanoscale</i> , 2018 , 10, 12723-12733	7.7	19
562	Excitonic processes in atomically-thin MoSe 2 /MoS 2 vertical heterostructures. <i>2D Materials</i> , 2018 , 5, 031016	5.9	5
561	Review of optical properties of two-dimensional transition metal dichalcogenides 2018 ,		1
560	Raman spectroscopy revealing noble gas adsorption on single-walled carbon nanotube bundles. <i>Carbon</i> , 2018 , 127, 312-319	10.4	15
559	Electrochemical Exfoliation: On the Role of Transition Metal Salts During Electrochemical Exfoliation of Graphite: Antioxidants or Metal Oxide Decorators for Energy Storage Applications (Adv. Funct. Mater. 48/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870345	15.6	
558	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , 2018 , 12, 11756-11784	16.7	239
557	Stable Sulfur-Intercalated 1T' MoS2 on Graphitic Nanoribbons as Hydrogen Evolution Electrocatalyst. <i>Advanced Functional Materials</i> , 2018 , 28, 1802744	15.6	53
556	Considerations for Utilizing Sodium Chloride in Epitaxial Molybdenum Disulfide. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40831-40837	9.5	42
555	On the Role of Transition Metal Salts During Electrochemical Exfoliation of Graphite: Antioxidants or Metal Oxide Decorators for Energy Storage Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1804357	15.6	25
554	A carbon nanotube integrated microfluidic device for blood plasma extraction. <i>Scientific Reports</i> , 2018 , 8, 13623	4.9	9
553	Phase Modulators Based on High Mobility Ambipolar ReSe Field-Effect Transistors. <i>Scientific Reports</i> , 2018 , 8, 12745	4.9	13
552	Probing the interaction of noble gases with pristine and nitrogen-doped graphene through Raman spectroscopy. <i>Physical Review B</i> , 2018 , 97,	3.3	7

551	Fano Resonances: Tunable Fano Resonance and Plasmon-Exciton Coupling in Single Au Nanotriangles on Monolayer WS ₂ at Room Temperature (Adv. Mater. 22/2018). <i>Advanced Materials</i> , 2018 , 30, 1870155	24	
550	Transferrable polymeric carbon nitride/nitrogen-doped graphene films for solid state optoelectronics. <i>Carbon</i> , 2018 , 138, 69-75	10.4	15
549	Nitrogen-doped porous carbon monoliths from polyacrylonitrile (PAN) and carbon nanotubes as electrodes for supercapacitors. <i>Scientific Reports</i> , 2017 , 7, 40259	4.9	51
548	Monolayer WS Nanopores for DNA Translocation with Light-Adjustable Sizes. <i>ACS Nano</i> , 2017 , 11, 1937-1945	10.4	70
547	Transfer of monolayer TMD WS and Raman study of substrate effects. <i>Scientific Reports</i> , 2017 , 7, 43037	4.9	41
546	Intervalley scattering by acoustic phonons in two-dimensional MoS revealed by double-resonance Raman spectroscopy. <i>Nature Communications</i> , 2017 , 8, 14670	17.4	141
545	Electro-graphitization and exfoliation of graphene on carbon nanofibers. <i>Carbon</i> , 2017 , 117, 201-207	10.4	15
544	Pressure Sensors: Ultrasensitive Pressure Detection of Few-Layer MoS ₂ (Adv. Mater. 4/2017). <i>Advanced Materials</i> , 2017 , 29,	24	11
543	Preparation of novel tetrahedral Ag ₃ PO ₄ crystals and the sunlight-responsive photocatalytic properties using graphene oxide as the template. <i>Carbon</i> , 2017 , 119, 522-526	10.4	7
542	Programmable molecular composites of tandem proteins with graphene oxide for efficient bimorph actuators. <i>Carbon</i> , 2017 , 118, 404-412	10.4	24
541	Low-temperature Synthesis of Heterostructures of Transition Metal Dichalcogenide Alloys (WMoS) and Graphene with Superior Catalytic Performance for Hydrogen Evolution. <i>ACS Nano</i> , 2017 , 11, 5103-5112	16.7	116
540	Photoluminescence Segmentation within Individual Hexagonal Monolayer Tungsten Disulfide Domains Grown by Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15005-15014	9.5	48
539	Optical identification of sulfur vacancies: Bound excitons at the edges of monolayer tungsten disulfide. <i>Science Advances</i> , 2017 , 3, e1602813	14.3	154
538	Hydro-deoxygenation of CO on functionalized carbon nanotubes for liquid fuels production. <i>Carbon</i> , 2017 , 121, 274-284	10.4	10
537	Polysulphone composite membranes modified with two types of carbon additives as a potential material for bone tissue regeneration. <i>Bulletin of Materials Science</i> , 2017 , 40, 201-212	1.7	3
536	Aligned carbon nanotube/zinc oxide nanowire hybrids as high performance electrodes for supercapacitor applications. <i>Journal of Applied Physics</i> , 2017 , 121, 124303	2.5	30
535	. <i>IEEE Nanotechnology Magazine</i> , 2017 , 11, 18-32	1.7	14
534	Avian and human influenza virus compatible sialic acid receptors in little brown bats. <i>Scientific Reports</i> , 2017 , 7, 660	4.9	17

533	Defect Coupling and Sub-Angstrom Structural Distortions in WMoS Monolayers. <i>Nano Letters</i> , 2017 , 17, 2802-2808	11.5	32
532	Covalent three-dimensional networks of graphene and carbon nanotubes: synthesis and environmental applications. <i>Nano Today</i> , 2017 , 12, 116-135	17.9	79
531	Doping two-dimensional materials: ultra-sensitive sensors, band gap tuning and ferromagnetic monolayers. <i>Nanoscale Horizons</i> , 2017 , 2, 72-80	10.8	60
530	Properties of Functionalized Carbon Nanotubes and Their Interaction with a Metallic Substrate Investigated by Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24264-24271	3.8	7
529	Intrinsic Chirality Origination in Carbon Nanotubes. <i>ACS Nano</i> , 2017 , 11, 9941-9949	16.7	18
528	Two-dimensional and three-dimensional hybrid assemblies based on graphene oxide and other layered structures: A carbon science perspective. <i>Carbon</i> , 2017 , 125, 437-453	10.4	20
527	Anomalous Corrosion of Bulk Transition Metal Diselenides Leading to Stable Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39059-39068	9.5	8
526	Solution synthesis of few-layer WTe ₂ and Mo _x W _{1-x} Te ₂ nanostructures. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 11317-11323	7.1	15
525	Photoluminescence Enhancement of Titanate Nanotubes by Insertion of Rare Earth Ions in Their Interlayer Spaces. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-9	3.2	12
524	Fullerene Formation 2017 ,		
523	Homogeneously dispersed CeO ₂ nanoparticles on exfoliated hexaniobate nanosheets. <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 111, 335-342	3.9	8
522	Effective NaCl and dye rejection of hybrid graphene oxide/graphene layered membranes. <i>Nature Nanotechnology</i> , 2017 , 12, 1083-1088	28.7	227
521	Antiorganic Fouling and Low-Protein Adhesion on Reverse-Osmosis Membranes Made of Carbon Nanotubes and Polyamide Nanocomposite. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32192-32201	9.5	32
520	BNC nanoshells: a novel structure for atomic storage. <i>Nanotechnology</i> , 2017 , 28, 465201	3.4	3
519	Negative Differential Conductance & Hot-Carrier Avalanching in Monolayer WS ₂ FETs. <i>Scientific Reports</i> , 2017 , 7, 11256	4.9	11
518	Plasmon-trion and plasmon-exciton resonance energy transfer from a single plasmonic nanoparticle to monolayer MoS ₂ . <i>Nanoscale</i> , 2017 , 9, 13947-13955	7.7	26
517	Low-Temperature Solution Synthesis of Transition Metal Dichalcogenide Alloys with Tunable Optical Properties. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11096-11105	16.4	54
516	Ordered and Atomically Perfect Fragmentation of Layered Transition Metal Dichalcogenides via Mechanical Instabilities. <i>ACS Nano</i> , 2017 , 11, 9191-9199	16.7	39

515	Intricate Resonant Raman Response in Anisotropic ReS. <i>Nano Letters</i> , 2017 , 17, 5897-5907	11.5	49
514	Structural evolution of hydrothermal carbon spheres induced by high temperatures and their electrical properties under compression. <i>Carbon</i> , 2017 , 121, 426-433	10.4	19
513	Atomically Thin Layers of Graphene and Hexagonal Boron Nitride Made by Solvent Exfoliation of Their Phosphoric Acid Intercalation Compounds. <i>ACS Nano</i> , 2017 , 11, 6746-6754	16.7	29
512	Ultrasensitive Pressure Detection of Few-Layer MoS. <i>Advanced Materials</i> , 2017 , 29, 1603266	24	56
511	Noble-Metal-Free Hybrid Membranes for Highly Efficient Hydrogen Evolution. <i>Advanced Materials</i> , 2017 , 29, 1603617	24	62
510	Elucidating the local interfacial structure of highly photoresponsive carbon nanotubes/PbS-QDs based nanohybrids grown by pulsed laser deposition. <i>Carbon</i> , 2016 , 96, 145-152	10.4	11
509	Correlation in structure and properties of highly-porous graphene monoliths studied with a thermal treatment method. <i>Carbon</i> , 2016 , 96, 174-183	10.4	31
508	Temperature- and power-dependent phonon properties of suspended continuous WS ₂ monolayer films. <i>Vibrational Spectroscopy</i> , 2016 , 86, 270-276	2.1	11
507	Lithium-Ion Batteries: Graphene Sandwiched Mesostructured Li-Ion Battery Electrodes (Adv. Mater. 35/2016). <i>Advanced Materials</i> , 2016 , 28, 7695-7695	24	3
506	Zone-center phonons of bulk, few-layer, and monolayer 1T $\bar{1}$ aS ₂ : Detection of commensurate charge density wave phase through Raman scattering. <i>Physical Review B</i> , 2016 , 93,	3.3	58
505	Excitonic Effects in Tungsten Disulfide Monolayers on Two-Layer Graphene. <i>ACS Nano</i> , 2016 , 10, 7840-6	16.7	34
504	Graphene Sandwiched Mesostructured Li-Ion Battery Electrodes. <i>Advanced Materials</i> , 2016 , 28, 7696-7024	24	68
503	Anchorage of Al ₂ O ₃ nanoparticles on nitrogen-doped multiwalled carbon nanotubes. <i>Scripta Materialia</i> , 2016 , 123, 17-20	5.6	
502	Photoconductivity of few-layered p-WSe ₂ phototransistors via multi-terminal measurements. <i>2D Materials</i> , 2016 , 3, 041004	5.9	15
501	Tunable and label-free virus enrichment for ultrasensitive virus detection using carbon nanotube arrays. <i>Science Advances</i> , 2016 , 2, e1601026	14.3	55
500	Ultrasensitive molecular sensor using N-doped graphene through enhanced Raman scattering. <i>Science Advances</i> , 2016 , 2, e1600322	14.3	125
499	Photoluminescence of monolayer transition metal dichalcogenides integrated with VO. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 504001	1.8	9
498	Deep-Eutectic Solvents as MWCNT Delivery Vehicles in the Synthesis of Functional Poly(HIPE) Nanocomposites for Applications as Selective Sorbents. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31295-31303	9.5	30

497	Low-Temperature Solution Synthesis of Few-Layer 1T γ -MoTe ₂ Nanostructures Exhibiting Lattice Compression. <i>Angewandte Chemie</i> , 2016 , 128, 2880-2884	3.6	15
496	Defect engineering of two-dimensional transition metal dichalcogenides. <i>2D Materials</i> , 2016 , 3, 022002	5.9	538
495	Third order nonlinear optical response exhibited by mono- and few-layers of WS ₂ . <i>2D Materials</i> , 2016 , 3, 021005	5.9	35
494	Graphene oxide films, fibers, and membranes. <i>Nanotechnology Reviews</i> , 2016 , 5,	6.3	30
493	Electrically functional 3D-architected graphene/SiC composites. <i>Carbon</i> , 2016 , 100, 318-328	10.4	69
492	pKa determination of graphene-like materials: Validating chemical functionalization. <i>Journal of Colloid and Interface Science</i> , 2016 , 467, 239-244	9.3	49
491	Carbon science in 2016: Status, challenges and perspectives. <i>Carbon</i> , 2016 , 98, 708-732	10.4	200
490	Atypical Exciton-Phonon Interactions in WS ₂ and WSe ₂ Monolayers Revealed by Resonance Raman Spectroscopy. <i>Nano Letters</i> , 2016 , 16, 2363-8	11.5	91
489	Magnetic quenching of photonic activity in Fe ₃ O ₄ -elastomer composite. <i>Journal of Nanophotonics</i> , 2016 , 10, 016017	1.1	
488	Effects of Uniaxial and Biaxial Strain on Few-Layered Terrace Structures of MoS ₂ Grown by Vapor Transport. <i>ACS Nano</i> , 2016 , 10, 3186-97	16.7	70
487	Three dimensional porous monoliths from multi-walled carbon nanotubes and polyacrylonitrile. <i>Carbon</i> , 2016 , 101, 377-381	10.4	12
486	Electron transport study on functionalized armchair graphene nanoribbons: DFT calculations. <i>RSC Advances</i> , 2016 , 6, 21954-21960	3.7	22
485	High electrical conductivity of double-walled carbon nanotube fibers by hydrogen peroxide treatments. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 74-82	13	32
484	Morphology-controlled fabrication of a three-dimensional mesoporous poly(vinyl alcohol) monolith through the incorporation of graphene oxide. <i>Carbon</i> , 2016 , 98, 334-342	10.4	14
483	Mechanical properties of hypothetical graphene foams: Giant Schwarzites. <i>Carbon</i> , 2016 , 96, 1191-1199	10.4	32
482	MoS ₂ Monolayers on Nanocavities: Enhanced Light-Matter Interaction within Atomic Monolayers 2016 ,		1
481	Observation of a Quasi-ordered Structure in Monolayer W _x Mo _(1-x) S ₂ Alloys. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1548-1549	0.5	1
480	Temperature Dependence of Sensors Based on Silver-Decorated Nitrogen-Doped Multiwalled Carbon Nanotubes. <i>Journal of Sensors</i> , 2016 , 2016, 1-10	2	6

479	Linear carbon chains inside multi-walled carbon nanotubes: Growth mechanism, thermal stability and electrical properties. <i>Carbon</i> , 2016 , 107, 217-224	10.4	28
478	Low-Temperature Solution Synthesis of Few-Layer 1T'-MoTe ₂ Nanostructures Exhibiting Lattice Compression. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2830-4	16.4	63
477	Distinct photoluminescence and Raman spectroscopy signatures for identifying highly crystalline WS ₂ monolayers produced by different growth methods. <i>Journal of Materials Research</i> , 2016 , 31, 931-944	2.5	68
476	High Performance and Chlorine Resistant Carbon Nanotube/Aromatic Polyamide Reverse Osmosis Nanocomposite Membrane. <i>MRS Advances</i> , 2016 , 1, 1469-1476	0.7	10
475	2D materials advances: from large scale synthesis and controlled heterostructures to improved characterization techniques, defects and applications. <i>2D Materials</i> , 2016 , 3, 042001	5.9	297
474	Fabrication and characterization of ultraviolet photosensors from ZnO nanowires prepared using chemical bath deposition method. <i>Journal of Applied Physics</i> , 2016 , 119, 084306	2.5	26
473	Controlled Exfoliation of MoS ₂ Crystals into Trilayer Nanosheets. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5143-9	16.4	166
472	High flex cycle testing of CVD monolayer WS ₂ TFTs on thin flexible polyimide. <i>2D Materials</i> , 2016 , 3, 021008	5.9	25
471	Transport properties through hexagonal boron nitride clusters embedded in graphene nanoribbons. <i>Nanotechnology</i> , 2016 , 27, 185203	3.4	5
470	Potassium intercalated multiwalled carbon nanotubes. <i>Carbon</i> , 2016 , 105, 90-95	10.4	14
469	Electric-Field-Assisted Directed Assembly of Transition Metal Dichalcogenide Monolayer Sheets. <i>ACS Nano</i> , 2016 , 10, 5006-14	16.7	7
468	Nanostructured carbon-based membranes: nitrogen doping effects on reverse osmosis performance. <i>NPG Asia Materials</i> , 2016 , 8, e258-e258	10.3	12
467	MoS ₂ monolayers on nanocavities: enhancement in light-matter interaction. <i>2D Materials</i> , 2016 , 3, 0250179	5.7	62
466	Effect of underlying boron nitride thickness on photocurrent response in molybdenum disulfide / boron nitride heterostructures. <i>Journal of Materials Research</i> , 2016 , 31, 893-899	2.5	8
465	Spontaneous Formation of Atomically Thin Stripes in Transition Metal Dichalcogenide Monolayers. <i>Nano Letters</i> , 2016 , 16, 6982-6987	11.5	40
464	Polymer-coated graphene films as anti-reflective transparent electrodes for Schottky junction solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13795-13802	13	34
463	Fullerene and nanotube growth: new insights using first principles and molecular dynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	5
462	Growth and Tunable Surface Wettability of Vertical MoS ₂ Layers for Improved Hydrogen Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22190-5	9.5	77

461	Controllable and Predictable Viscoelastic Behavior of 3D Boron-Doped Multiwalled Carbon Nanotube Sponges. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 21-26	3.1	6
460	Three-dimensionally bonded spongy graphene material with super compressive elasticity and near-zero Poisson's ratio. <i>Nature Communications</i> , 2015 , 6, 6141	17.4	389
459	The influence of carbon nanotubes characteristics in their performance as positive electrodes in vanadium redox flow batteries. <i>Sustainable Energy Technologies and Assessments</i> , 2015 , 9, 105-110	4.7	21
458	The effect of CNT functionalization on electrical and relaxation phenomena in MWCNT/chitosan composites. <i>Materials Chemistry and Physics</i> , 2015 , 155, 252-261	4.4	25
457	Biotin molecules on nitrogen-doped carbon nanotubes enhance the uniform anchoring and formation of Ag nanoparticles. <i>Carbon</i> , 2015 , 88, 51-59	10.4	9
456	Graphene nanoribbons inducing cube-shaped Ag nanoparticle assemblies. <i>Carbon</i> , 2015 , 93, 800-811	10.4	15
455	Nanocarbons from rice husk by microwave plasma irradiation: From graphene and carbon nanotubes to graphenated carbon nanotube hybrids. <i>Carbon</i> , 2015 , 94, 479-484	10.4	59
454	Stable and solid pellets of functionalized multi-walled carbon nanotubes produced under high pressure and temperature. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	3
453	Microwave plasma-induced graphene-sheet fibers from waste coffee grounds. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14545-14549	13	16
452	Graphene nanoribbon ceramic composites. <i>Carbon</i> , 2015 , 90, 207-214	10.4	24
451	Effects of nitrogen-doped multi-walled carbon nanotubes compared to pristine multi-walled carbon nanotubes on human small airway epithelial cells. <i>Toxicology</i> , 2015 , 333, 25-36	4.4	25
450	Beyond Graphene: Progress in Novel Two-Dimensional Materials and van der Waals Solids. <i>Annual Review of Materials Research</i> , 2015 , 45, 1-27	12.8	430
449	Wetting of mono and few-layered WS ₂ and MoS ₂ films supported on Si/SiO ₂ substrates. <i>ACS Nano</i> , 2015 , 9, 3023-31	16.7	156
448	Formation and Interlayer Decoupling of Colloidal MoSe ₂ Nanoflowers. <i>Chemistry of Materials</i> , 2015 , 27, 3167-3175	9.6	86
447	Hyperelasticity of three-dimensional carbon nanotube sponge controlled by the stiffness of covalent junctions. <i>Carbon</i> , 2015 , 95, 640-645	10.4	7
446	Ultrasensitive gas detection of large-area boron-doped graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14527-32	11.5	146
445	Molecular Dynamics Study of Carbon Nanotubes/Polyamide Reverse Osmosis Membranes: Polymerization, Structure, and Hydration. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24566-75	9.5	47
444	Tellurium-Assisted Low-Temperature Synthesis of MoS ₂ and WS ₂ Monolayers. <i>ACS Nano</i> , 2015 , 9, 11658-67	16.7	107

443	Recent Advances in Two-Dimensional Materials beyond Graphene. <i>ACS Nano</i> , 2015 , 9, 11509-39	16.7	1581
442	A Spray Pyrolysis Method to Grow Carbon Nanotubes on Carbon Fibres, Steel and Ceramic Bricks. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 2858-64	1.3	8
441	Ultrafast Intrinsic Photoresponse and Direct Evidence of Sub-gap States in Liquid Phase Exfoliated MoS ₂ Thin Films. <i>Scientific Reports</i> , 2015 , 5, 11272	4.9	43
440	(Ga,In)P nanowires grown without intentional catalyst. <i>Journal of Crystal Growth</i> , 2015 , 431, 72-78	1.6	5
439	Oil sorption by exfoliated graphite from dilute oil/water emulsion for practical applications in produced water treatments. <i>Journal of Water Process Engineering</i> , 2015 , 8, 91-98	6.7	20
438	Fast and Efficient Preparation of Exfoliated 2H MoS ₂ Nanosheets by Sonication-Assisted Lithium Intercalation and Infrared Laser-Induced 1T to 2H Phase Reversion. <i>Nano Letters</i> , 2015 , 15, 5956-60	11.5	472
437	Two-dimensional transition metal dichalcogenides: Clusters, ribbons, sheets and more. <i>Nano Today</i> , 2015 , 10, 559-592	17.9	84
436	Manganese Doping of Monolayer MoS ₂ : The Substrate Is Critical. <i>Nano Letters</i> , 2015 , 15, 6586-91	11.5	285
435	Metal to Insulator Quantum-Phase Transition in Few-Layered ReS ₂ . <i>Nano Letters</i> , 2015 , 15, 8377-84	11.5	82
434	Towards the understanding of the graphene oxide structure: How to control the formation of humic- and fulvic-like oxidized debris. <i>Carbon</i> , 2015 , 84, 299-309	10.4	52
433	Beryllium doping graphene, graphene-nanoribbons, C ₆₀ -fullerene, and carbon nanotubes. <i>Carbon</i> , 2015 , 84, 317-326	10.4	18
432	Transition metal dichalcogenides and beyond: synthesis, properties, and applications of single- and few-layer nanosheets. <i>Accounts of Chemical Research</i> , 2015 , 48, 56-64	24.3	864
431	Study of the growth of CeO ₂ nanoparticles onto titanate nanotubes. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 87, 213-220	3.9	25
430	High-performance multi-functional reverse osmosis membranes obtained by carbon nanotube/polyamide nanocomposite. <i>Scientific Reports</i> , 2015 , 5, 13562	4.9	81
429	Hall and field-effect mobilities in few layered p-WSe ₂ field-effect transistors. <i>Scientific Reports</i> , 2015 , 5, 8979	4.9	94
428	Individual Mo Dopant Atoms in WS ₂ Monolayers: Atomic Structure and Induced Strain. <i>Microscopy and Microanalysis</i> , 2015 , 21, 435-436	0.5	3
427	Directional Electrical Transport in Tough Multifunctional Layered Ceramic/Graphene Composites. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500132	6.4	6
426	3D Nanocomposites of Covalently Interconnected Multiwalled Carbon Nanotubes with SiC with Enhanced Thermal and Electrical Properties. <i>Advanced Functional Materials</i> , 2015 , 25, 4985-4993	15.6	14

425	Covalent Networks: 3D Nanocomposites of Covalently Interconnected Multiwalled Carbon Nanotubes with SiC with Enhanced Thermal and Electrical Properties (Adv. Funct. Mater. 31/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 4922-4922	15.6	2
424	Magnetic and Electrical Properties of Nitrogen-Doped Multiwall Carbon Nanotubes Fabricated by a Modified Chemical Vapor Deposition Method. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-14	3.2	7
423	Differential Response of Doped/Defective Graphene and Dopamine to Electric Fields: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 13972-13978	3.8	32
422	Efficient photovoltaic conversion of graphene-carbon nanotube hybrid films grown from solid precursors. <i>2D Materials</i> , 2015 , 2, 034003	5.9	27
421	Gate-modulated conductance of few-layer WSe ₂ field-effect transistors in the subgap regime: Schottky barrier transistor and subgap impurity states. <i>Applied Physics Letters</i> , 2015 , 106, 152104	3.4	27
420	A VACNT integrated handheld device for label-free virus capture, detection and enrichment for genomic analysis 2015 ,		1
419	Second Harmonic Generation in WSe ₂ . <i>2D Materials</i> , 2015 , 2, 045015	5.9	66
418	Electronic, magnetic, optical, and edge-reactivity properties of semiconducting and metallic WS ₂ nanoribbons. <i>2D Materials</i> , 2015 , 2, 015002	5.9	17
417	Self-Assembly Synthesis of Decorated Nitrogen-Doped Carbon Nanotubes with ZnO Nanoparticles: Anchoring Mechanism and the Effects of Sulfur. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 741-747	3.8	9
416	Structure, Chirality, and Formation of Giant Icosahedral Fullerenes and Spherical Graphitic Onions 2015 , 101-112		5
415	New first order Raman-active modes in few layered transition metal dichalcogenides. <i>Scientific Reports</i> , 2014 , 4, 4215	4.9	289
414	Extraordinary Second Harmonic Generation in tungsten disulfide monolayers. <i>Scientific Reports</i> , 2014 , 4, 5530	4.9	214
413	Rice husk-derived graphene with nano-sized domains and clean edges. <i>Small</i> , 2014 , 10, 2766-70, 2740	11	130
412	Resource Letter N-1: Nanotechnology. <i>American Journal of Physics</i> , 2014 , 82, 8-22	0.7	2
411	Direct synthesis of van der Waals solids. <i>ACS Nano</i> , 2014 , 8, 3715-23	16.7	218
410	Importance of open, heteroatom-decorated edges in chemically doped-graphene for supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9532-9540	13	80
409	Building complex hybrid carbon architectures by covalent interconnections: graphene-nanotube hybrids and more. <i>ACS Nano</i> , 2014 , 8, 4061-9	16.7	119
408	Porous Materials: Controlling the Optical, Electrical and Chemical Properties of Carbon Inverse Opal by Nitrogen Doping (Adv. Funct. Mater. 18/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 2611-2611	15.6	1

407	Band gap engineering and layer-by-layer mapping of selenium-doped molybdenum disulfide. <i>Nano Letters</i> , 2014 , 14, 442-9	11.5	378
406	Extraordinary toughening enhancement and flexural strength in Si3N4 composites using graphene sheets. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 161-169	6	108
405	Electrochemical characterization of liquid phase exfoliated two-dimensional layers of molybdenum disulfide. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2125-30	9.5	97
404	Effect of defects on the intrinsic strength and stiffness of graphene. <i>Nature Communications</i> , 2014 , 5, 3186	17.4	435
403	Enhancing the superconducting temperature of MgB2 by SWCNT dilution. <i>Physica C: Superconductivity and Its Applications</i> , 2014 , 497, 43-48	1.3	4
402	Large-area Si-doped graphene: controllable synthesis and enhanced molecular sensing. <i>Advanced Materials</i> , 2014 , 26, 7593-9	24	91
401	Discovery of wall-selective carbon nanotube growth conditions via automated experimentation. <i>ACS Nano</i> , 2014 , 8, 10214-22	16.7	53
400	Bilayers of transition metal dichalcogenides: Different stackings and heterostructures. <i>Journal of Materials Research</i> , 2014 , 29, 373-382	2.5	33
399	Spectroscopic signatures for interlayer coupling in MoS2-WSe2 van der Waals stacking. <i>ACS Nano</i> , 2014 , 8, 9649-56	16.7	233
398	Defect-Assisted Heavily and Substitutionally Boron-Doped Thin Multiwalled Carbon Nanotubes Using High-Temperature Thermal Diffusion. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4454-4459	3.8	17
397	Aligned carbon nanotube/silicon carbide hybrid materials with high electrical conductivity, superhydrophobicity and superoleophilicity. <i>Carbon</i> , 2014 , 80, 120-126	10.4	21
396	Non-oxidative intercalation and exfoliation of graphite by Brønsted acids. <i>Nature Chemistry</i> , 2014 , 6, 957-63	17.6	154
395	Dislocation motion and grain boundary migration in two-dimensional tungsten disulphide. <i>Nature Communications</i> , 2014 , 5, 4867	17.4	167
394	Vertical and in-plane heterostructures from WS2/MoS2 monolayers. <i>Nature Materials</i> , 2014 , 13, 1135-4227		1580
393	Excited excitonic states in 1L, 2L, 3L, and bulk WSe2 observed by resonant Raman spectroscopy. <i>ACS Nano</i> , 2014 , 8, 9629-35	16.7	154
392	Super-stretchable graphene oxide macroscopic fibers with outstanding knotability fabricated by dry film scrolling. <i>ACS Nano</i> , 2014 , 8, 5959-67	16.7	150
391	Pressure-Induced Selectivity for Probing Inner Tubes in Double- and Triple-Walled Carbon Nanotubes: A Resonance Raman Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8153-8158	3.8	26
390	Carbon nanotube-Cu hybrids enhanced catalytic activity in aqueous media. <i>Carbon</i> , 2014 , 78, 10-18	10.4	7

389	Ultra-light carbon nanotube sponge as an efficient electromagnetic shielding material in the GHz range. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 698-704	2.5	59
388	Synthesis, Characterization and Magnetic Properties of Defective Nitrogen-Doped Multiwall Carbon Nanotubes Encapsulating Ferromagnetic Nanoparticles. <i>Journal of Nano Research</i> , 2014 , 28, 39-49	1	2
387	Nitrogen-doped-CNTs/Si3N4 nanocomposites with high electrical conductivity. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 1097-1104	6	11
386	Field-effect transistors based on few-layered MoTe2. <i>ACS Nano</i> , 2014 , 8, 5911-20	16.7	281
385	CVD-grown monolayered MoS2 as an effective photosensor operating at low-voltage. <i>2D Materials</i> , 2014 , 1, 011004	5.9	170
384	Electronic and vibrational properties of defective transition metal dichalcogenide Haeckelites: new 2D semi-metallic systems. <i>2D Materials</i> , 2014 , 1, 011003	5.9	30
383	CO2 adsorption on crystalline graphitic nanostructures. <i>Journal of CO2 Utilization</i> , 2014 , 5, 60-65	7.6	14
382	Activation routes for high surface area graphene monoliths from graphene oxide colloids. <i>Carbon</i> , 2014 , 76, 220-231	10.4	72
381	Synthesis, characterization and magnetic properties of Co@Au core-shell nanoparticles encapsulated by nitrogen-doped multiwall carbon nanotubes. <i>Carbon</i> , 2014 , 77, 722-737	10.4	21
380	Atomic-scale Observation of Grains and Grain Boundaries in Monolayers of WS2. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1084-1085	0.5	2
379	Graphene: Large-Area Si-Doped Graphene: Controllable Synthesis and Enhanced Molecular Sensing (Adv. Mater. 45/2014). <i>Advanced Materials</i> , 2014 , 26, 7676-7676	24	
378	Ultrashort optical pulse characterization using WS2 monolayers. <i>Optics Letters</i> , 2014 , 39, 383-5	3	30
377	Metal-semiconductor transition like behavior of naphthalene-doped single wall carbon nanotube bundles. <i>Faraday Discussions</i> , 2014 , 173, 145-56	3.6	4
376	Controlling the Optical, Electrical and Chemical Properties of Carbon Inverse Opal by Nitrogen Doping. <i>Advanced Functional Materials</i> , 2014 , 24, 2612-2619	15.6	20
375	Facile synthesis of MoS2 and MoxW1-xS2 triangular monolayers. <i>APL Materials</i> , 2014 , 2, 092514	5.7	75
374	Pine-tree-like morphologies of nitrogen-doped carbon nanotubes: Electron field emission enhancement. <i>Journal of Materials Research</i> , 2014 , 29, 2441-2450	2.5	4
373	Three-dimensional Nanotube Networks and a New Horizon of Applications 2014 , 457-493		2
372	Effect of doping in carbon nanotubes on the viability of biomimetic chitosan-carbon nanotubes-hydroxyapatite scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 3341-514	5.4	16

371	Double-walled carbon nanotubes: synthesis, structural characterization, and application. <i>Carbon Letters</i> , 2014 , 15, 77-88	2.3	28
370	Carbon Nanotubes and Other Carbon Materials 2014 , 628-642		
369	Nanoribbons: Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport (Adv. Funct. Mater. 30/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 3714-3714	15.6	
368	Resonance effects on the Raman spectra of graphene superlattices. <i>Physical Review B</i> , 2013 , 88,	3.3	104
367	Conducting linear chains of sulphur inside carbon nanotubes. <i>Nature Communications</i> , 2013 , 4, 2162	17.4	176
366	A reversible strain-induced electrical conductivity in cup-stacked carbon nanotubes. <i>Nanoscale</i> , 2013 , 5, 10212-8	7.7	10
365	Nitrogen-Doped Graphitic Nanoribbons: Synthesis, Characterization, and Transport. <i>Advanced Functional Materials</i> , 2013 , 23, 3755-3762	15.6	28
364	Doped Graphene: Theory, Synthesis, Characterization, and Applications 2013 , 183-207		4
363	Synthesis of conducting graphene/Si ₃ N ₄ composites by spark plasma sintering. <i>Carbon</i> , 2013 , 57, 425-432	10.4	72
362	Three-dimensional nitrogen-doped multiwall carbon nanotube sponges with tunable properties. <i>Nano Letters</i> , 2013 , 13, 5514-20	11.5	97
361	Enhanced Solubilization of Carbon Nanotubes in Aqueous Suspensions of Anionic/Nonionic Surfactant Mixtures. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25138-25145	3.8	8
360	Large area films of alternating graphene-carbon nanotube layers processed in water. <i>ACS Nano</i> , 2013 , 7, 10788-98	16.7	73
359	Boron-assisted coalescence of parallel multi-walled carbon nanotubes. <i>RSC Advances</i> , 2013 , 3, 26266	3.7	5
358	Microfluidic device with carbon nanotube channel walls for blood plasma extraction 2013 ,		2
357	Optoelectronic modulation by multi-wall carbon nanotubes. <i>Nanotechnology</i> , 2013 , 24, 045201	3.4	12
356	Extraordinary room-temperature photoluminescence in triangular WS ₂ monolayers. <i>Nano Letters</i> , 2013 , 13, 3447-54	11.5	1145
355	Iron Particle Nanodrilling of Few Layer Graphene at Low Electron Beam Accelerating Voltages. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 76-82	3.1	8
354	Nanodrilling: Iron Particle Nanodrilling of Few Layer Graphene at Low Electron Beam Accelerating Voltages (Part. Part. Syst. Charact. 1/2013). <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 75-78 ¹	3.1	8

353	An efficient method for the carboxylation of few-wall carbon nanotubes with little damage to their sidewalls. <i>Materials Chemistry and Physics</i> , 2013 , 140, 499-507	4.4	19
352	Synthesis of macroporous poly(acrylic acid)/carbon nanotube composites by frontal polymerization in deep-eutectic solvents. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3970	13	75
351	Progress, challenges, and opportunities in two-dimensional materials beyond graphene. <i>ACS Nano</i> , 2013 , 7, 2898-926	16.7	3414
350	Formation of nitrogen-doped graphene nanoribbons via chemical unzipping. <i>ACS Nano</i> , 2013 , 7, 2192-2046	16.7	61
349	Nitrogen/Silicon Heterodoping of Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 8481-8490	3.6	19
348	In situ processing of electrically conducting graphene/SiC nanocomposites. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 1665-1674	6	99
347	Photosensor Device Based on Few-Layered WS ₂ Films. <i>Advanced Functional Materials</i> , 2013 , 23, 5511-5517	13.6	480
346	Reversible intercalation of hexagonal boron nitride with Brønsted acids. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8372-81	16.4	69
345	Controlled interlayer spacing of scrolled reduced graphene nanotubes by thermal annealing. <i>RSC Advances</i> , 2013 , 3, 4161	3.7	10
344	Edge-edge interactions in stacked graphene nanoplatelets. <i>ACS Nano</i> , 2013 , 7, 2834-41	16.7	25
343	Novel Carbon-Based Nanomaterials 2013 , 61-87		5
342	Novel hetero-layered materials with tunable direct band gaps by sandwiching different metal disulfides and diselenides. <i>Scientific Reports</i> , 2013 , 3, 1549	4.9	378
341	Identification of individual and few layers of WS ₂ using Raman Spectroscopy. <i>Scientific Reports</i> , 2013 , 3,	4.9	911
340	Carbon-Based Nanomaterials From a Historical Perspective. <i>Proceedings of the IEEE</i> , 2013 , 101, 1522-1535	14.3	43
339	Controlled synthesis and transfer of large-area WS ₂ sheets: from single layer to few layers. <i>ACS Nano</i> , 2013 , 7, 5235-42	16.7	453
338	Lithiation induced corrosive fracture in defective carbon nanotubes. <i>Applied Physics Letters</i> , 2013 , 103, 153901	3.4	25
337	Ultrahigh humidity sensitivity of graphene oxide. <i>Scientific Reports</i> , 2013 , 3, 2714	4.9	427
336	Modified Carbon Nanotubes 2013 , 189-232		2

335	Polarized Induced Magnetic Broadening of Photonic Activities in Fe ₃ O ₄ -Elastomer Composites. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1509, 1		
334	Intrinsic carrier mobility of multi-layered MoS ₂ field-effect transistors on SiO ₂ . <i>Applied Physics Letters</i> , 2013 , 102, 123105	3.4	98
333	Sensors: Photosensor Device Based on Few-Layered WS ₂ Films (Adv. Funct. Mater. 44/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 5510-5510	15.6	5
332	ROS evaluation for a series of CNTs and their derivatives using an ESR method with DMPO. <i>Journal of Physics: Conference Series</i> , 2013 , 429,	0.3	12
331	Towards new graphene materials: Doped graphene sheets and nanoribbons. <i>Materials Letters</i> , 2012 , 78, 209-218	3.3	168
330	Catalytic Twist-Spun Yarns of Nitrogen-Doped Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2012 , 22, 1069-1075	15.6	33
329	Carbon Nanotubes: Catalytic Twist-Spun Yarns of Nitrogen-Doped Carbon Nanotubes (Adv. Funct. Mater. 5/2012). <i>Advanced Functional Materials</i> , 2012 , 22, 1098-1098	15.6	1
328	Selective synthesis of double helices of carbon nanotube bundles grown on treated metallic substrates. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 2382-2385	1.3	1
327	The role of defects and doping in 2D graphene sheets and 1D nanoribbons. <i>Reports on Progress in Physics</i> , 2012 , 75, 062501	14.4	383
326	Raman spectroscopy of boron-doped single-layer graphene. <i>ACS Nano</i> , 2012 , 6, 6293-300	16.7	209
325	Clean nanotube unzipping by abrupt thermal expansion of molecular nitrogen: graphene nanoribbons with atomically smooth edges. <i>ACS Nano</i> , 2012 , 6, 2261-72	16.7	48
324	Nitrogen-doped graphene: beyond single substitution and enhanced molecular sensing. <i>Scientific Reports</i> , 2012 , 2, 586	4.9	517
323	Determination of the stacking order of curved few-layered graphene systems. <i>Nanoscale</i> , 2012 , 4, 6419-24	4.7	5
322	Geometric and Electronic Structure of Closed Graphene Edges. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2097-2102	6.4	16
321	Novel Nanocarbons for Adsorption 2012 , 3-34		11
320	Controlling the shapes and assemblages of graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 7951-2	11.5	6
319	Defects and impurities in graphene-like materials. <i>Materials Today</i> , 2012 , 15, 98-109	21.8	228
318	Covalently bonded three-dimensional carbon nanotube solids via boron induced nanojunctions. <i>Scientific Reports</i> , 2012 , 2, 363	4.9	300

317	Fabrication of transparent, tough, and conductive shape-memory polyurethane films by incorporating a small amount of high-quality graphene. <i>Macromolecular Rapid Communications</i> , 2012 , 33, 628-34	4.8	65
316	Hybrid films with graphene oxide and metal nanoparticles could now replace indium tin oxide. <i>ACS Nano</i> , 2012 , 6, 4565-72	16.7	41
315	Carbon nanotube bundles self-assembled in double helix microstructures. <i>Carbon</i> , 2012 , 50, 3688-3693	10.4	21
314	Enhanced electrical conductivities of N-doped carbon nanotubes by controlled heat treatment. <i>Nanoscale</i> , 2011 , 3, 4359-64	7.7	50
313	Heterogeneous Nanotubes: (X*CNTs, X*BNNTs) 2011 , 323-409		
312	Millimeter-long carbon nanotubes: outstanding electron-emitting sources. <i>ACS Nano</i> , 2011 , 5, 5072-7	16.7	44
311	Transparent Foamlike 2D Networks of Nitrogen-Doped Multiwalled Carbon Nanotubes Obtained by Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11447-11452	3.8	1
310	Quantum transport in graphene nanonetworks. <i>Nano Letters</i> , 2011 , 11, 3058-64	11.5	55
309	Chirality-dependent transport in double-walled carbon nanotube assemblies: the role of inner tubes. <i>ACS Nano</i> , 2011 , 5, 7547-54	16.7	27
308	Marked adsorption irreversibility of graphitic nanoribbons for CO ₂ and H ₂ O. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14880-3	16.4	55
307	Hydroxyl-functionalized and N-doped multiwalled carbon nanotubes decorated with silver nanoparticles preserve cellular function. <i>ACS Nano</i> , 2011 , 5, 2458-66	16.7	63
306	Graphene edges: a review of their fabrication and characterization. <i>Nanoscale</i> , 2011 , 3, 86-95	7.7	353
305	Flexible ZnO-cellulose nanocomposite for multisource energy conversion. <i>Small</i> , 2011 , 7, 2173-8	11	67
304	Optically and biologically active mussel protein-coated double-walled carbon nanotubes. <i>Small</i> , 2011 , 7, 3292-7	11	29
303	Bulk synthesis of narrow diameter and highly crystalline triple-walled carbon nanotubes by coalescing fullerene peapods. <i>Advanced Materials</i> , 2011 , 23, 1761-4	24	23
302	Phosphorus and phosphorus-nitrogen doped carbon nanotubes for ultrasensitive and selective molecular detection. <i>Nanoscale</i> , 2011 , 3, 1008-13	7.7	74
301	Unusually high dispersion of nitrogen-doped carbon nanotubes in DNA solution. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 14295-300	3.4	8
300	One-dimensional extended lines of divacancy defects in graphene. <i>Nanoscale</i> , 2011 , 3, 2868-72	7.7	82

299	Development of highly microporous activated carbon from the alcoholic beverage industry organic by-products. <i>Biomass and Bioenergy</i> , 2011 , 35, 103-112	5.3	58
298	Evaluating the characteristics of multiwall carbon nanotubes. <i>Carbon</i> , 2011 , 49, 2581-2602	10.4	769
297	Enhanced X-Ray Shielding Effects of Carbon Nanotubes. <i>Materials Express</i> , 2011 , 1, 273-278	1.3	18
296	Doping (10, 0)-Semiconductor Nanotubes with Nitrogen and Vacancy Defects. <i>Materials Express</i> , 2011 , 1, 127-135	1.3	18
295	Graphene oxide nanoplatelets of different crystallinity synthesized from helical-ribbon carbon nanofibers and multiwall carbon nanotubes. <i>Journal of Materials Research</i> , 2011 , 26, 2632-2641	2.5	13
294	Structural changes to aid science in developing countries. <i>Nature</i> , 2010 , 464, 486	50.4	
293	Synthesis and Characterization of Nitrogen Doped Carbon Nanotubes. <i>Materials Science Forum</i> , 2010 , 636-637, 714-721	0.4	3
292	Sensitive G-band Raman features for the electrical conductivity of multi-walled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 3940-4	1.3	5
291	Longitudinal cutting of pure and doped carbon nanotubes to form graphitic nanoribbons using metal clusters as nanoscalpels. <i>Nano Letters</i> , 2010 , 10, 366-72	11.5	284
290	Raman and fluorescence spectroscopic studies of a DNA-dispersed double-walled carbon nanotube solution. <i>ACS Nano</i> , 2010 , 4, 1060-6	16.7	24
289	Sharpening the chemical scissors to unzip carbon nanotubes: crystalline graphene nanoribbons. <i>ACS Nano</i> , 2010 , 4, 1775-81	16.7	86
288	Chemical vapor deposition synthesis of N-, P-, and Si-doped single-walled carbon nanotubes. <i>ACS Nano</i> , 2010 , 4, 1696-702	16.7	101
287	Electrical transport and field-effect transistors using inkjet-printed SWCNT films having different functional side groups. <i>ACS Nano</i> , 2010 , 4, 3318-24	16.7	68
286	Observation of magnetic edge state in graphene nanoribbons. <i>Physical Review B</i> , 2010 , 81,	3.3	120
285	Electrical transport through single-wall carbon nanotube-anodic aluminum oxide-aluminum heterostructures. <i>Nanotechnology</i> , 2010 , 21, 035707	3.4	5
284	Controlling edge morphology in graphene layers using electron irradiation: from sharp atomic edges to coalesced layers forming loops. <i>Physical Review Letters</i> , 2010 , 105, 045501	7.4	50
283	Wall-to-wall stress induced in (6,5) semiconducting nanotubes by encapsulation in metallic outer tubes of different diameters: a resonance Raman study of individual C60-derived double-wall carbon nanotubes. <i>Nanoscale</i> , 2010 , 2, 406-11	7.7	23
282	Magnetoresistance and Phase Breaking Behavior of a Nitrogen Doped Multi-Walled Carbon Nanotube. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 02BD01	1.4	

281	Tunable Raman spectroscopy study of CVD and peapod-derived bundled and individual double-wall carbon nanotubes. <i>Physical Review B</i> , 2010 , 82,	3.3	19
280	Optical spectroscopic studies of thermally coalesced single-walled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 3878-83	1.3	
279	Magnetic properties of encapsulated nanoparticles in nitrogen-doped multiwalled carbon nanotubes embedded in SiO _x matrices. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 5576-82	1.3	5
278	Spectroscopic characterization of N-doped single-walled carbon nanotube strands: an X-ray photoelectron spectroscopy and Raman study. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 3959-64	1.3	30
277	Efficient vapor sensors using foils of dispersed nitrogen-doped and pure carbon multiwalled nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 3965-72	1.3	9
276	Controlling high coercivities of ferromagnetic nanowires encapsulated in carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5906		54
275	Effect of impurities on the electronic and magnetic properties of zinc oxide nanostructures. <i>Chemical Physics Letters</i> , 2010 , 492, 82-88	2.5	18
274	The Formation of ReS ₂ Inorganic Fullerene-Like Structures Containing Re ₄ Parallelogram Units and Metal-Metal Bonds.. <i>ChemInform</i> , 2010 , 33, no-no		1
273	Graphene and graphite nanoribbons: Morphology, properties, synthesis, defects and applications. <i>Nano Today</i> , 2010 , 5, 351-372	17.9	695
272	Flexible piezoelectric ZnO-paper nanocomposite strain sensor. <i>Small</i> , 2010 , 6, 1641-6	11	281
271	Strong and stable photoluminescence from the semiconducting inner tubes within double walled carbon nanotubes. <i>Applied Physics Letters</i> , 2009 , 94, 083106	3.4	30
270	Controlled growth of one-dimensional clusters of molybdenum atoms using double-walled carbon nanotube templating. <i>Applied Physics Letters</i> , 2009 , 94, 113105	3.4	7
269	Loop formation in graphitic nanoribbon edges using furnace heating or Joule heating. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 1996		24
268	The Role of Sulfur in the Synthesis of Novel Carbon Morphologies: From Covalent Y-Junctions to Sea-Urchin-Like Structures. <i>Advanced Functional Materials</i> , 2009 , 19, 1193-1199	15.6	44
267	Toxicity Evaluation for Safe Use of Nanomaterials: Recent Achievements and Technical Challenges. <i>Advanced Materials</i> , 2009 , 21, 1549-1559	24	216
266	Graphene Shape Control by Multistage Cutting and Transfer. <i>Advanced Materials</i> , 2009 , 21, 4487-4491	24	133
265	Defect-enhanced dispersion of carbon nanotubes in DNA solutions. <i>ChemPhysChem</i> , 2009 , 10, 2414-7	3.2	17
264	Acid modified bamboo-type carbon nanotubes and cup-stacked-type carbon nanofibres as adsorbent materials: cadmium removal from aqueous solution. <i>Journal of Chemical Technology and Biotechnology</i> , 2009 , 84, 519-524	3.5	35

263	Boron, nitrogen and phosphorous substitutionally doped single-wall carbon nanotubes studied by resonance Raman spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2432-2435	1.3	18
262	Resonant Raman study on bulk and isolated graphitic nanoribbons. <i>Small</i> , 2009 , 5, 2698-702	11	13
261	Bright photoluminescence from the inner tubes of "peapod"-derived double-walled carbon nanotubes. <i>Small</i> , 2009 , 5, 2678-82	11	35
260	A theoretical and experimental study on manipulating the structure and properties of carbon nanotubes using substitutional dopants. <i>International Journal of Quantum Chemistry</i> , 2009 , 109, 97-118	2.1	64
259	Simultaneous adsorption of Cd ²⁺ and phenol on modified N-doped carbon nanotubes: experimental and DFT studies. <i>Journal of Colloid and Interface Science</i> , 2009 , 334, 124-31	9.3	55
258	Thermal stability studies of CVD-grown graphene nanoribbons: Defect annealing and loop formation. <i>Chemical Physics Letters</i> , 2009 , 469, 177-182	2.5	147
257	The importance of defects for carbon nanoribbon based electronics. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009 , 3, 181-183	2.5	8
256	Metallic and ferromagnetic edges in molybdenum disulfide nanoribbons. <i>Nanotechnology</i> , 2009 , 20, 3257-303	3.03	164
255	Properties of one-dimensional molybdenum nanowires in a confined environment. <i>Nano Letters</i> , 2009 , 9, 1487-92	11.5	37
254	Effects of 45-nm silver nanoparticles on coronary endothelial cells and isolated rat aortic rings. <i>Toxicology Letters</i> , 2009 , 191, 305-13	4.4	99
253	Controlled formation of sharp zigzag and armchair edges in graphitic nanoribbons. <i>Science</i> , 2009 , 323, 1701-5	33.3	592
252	Design of graphene electronic devices using nanoribbons of different widths. <i>Applied Physics Letters</i> , 2009 , 95, 182104	3.4	33
251	Ex-MWNTs: graphene sheets and ribbons produced by lithium intercalation and exfoliation of carbon nanotubes. <i>Nano Letters</i> , 2009 , 9, 1527-33	11.5	326
250	Raman spectroscopy study of heat-treated and boron-doped double wall carbon nanotubes. <i>Physical Review B</i> , 2009 , 80,	3.3	13
249	Synthesis, electronic structure, and Raman scattering of phosphorus-doped single-wall carbon nanotubes. <i>Nano Letters</i> , 2009 , 9, 2267-72	11.5	121
248	Spin polarized conductance in hybrid graphene nanoribbons using 5-7 defects. <i>ACS Nano</i> , 2009 , 3, 3606-12.7	12.7	52
247	Heterojunctions between metals and carbon nanotubes as ultimate nanocontacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 4591-5	11.5	100
246	Electronic transport and mechanical properties of phosphorus- and phosphorus-nitrogen-doped carbon nanotubes. <i>ACS Nano</i> , 2009 , 3, 1913-21	16.7	191

245	Self-diffraction properties in nanotubes (CNTs) 2009 ,		3
244	Properties and Applications of Doped Carbon Nanotubes 2009 , 223-269		2
243	Electron and phonon renormalization near charged defects in carbon nanotubes. <i>Nature Materials</i> , 2008 , 7, 878-83	27	236
242	Super-robust, lightweight, conducting carbon nanotube blocks cross-linked by de-fluorination. <i>ACS Nano</i> , 2008 , 2, 348-56	16.7	40
241	Experimental and theoretical studies suggesting the possibility of metallic boron nitride edges in porous nanourchins. <i>Nano Letters</i> , 2008 , 8, 1026-32	11.5	79
240	Bulk production of a new form of sp(2) carbon: crystalline graphene nanoribbons. <i>Nano Letters</i> , 2008 , 8, 2773-8	11.5	524
239	Diameter-selective separation of double-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2008 , 93, 223107	3.4	15
238	Synthesis and isolation of molybdenum atomic wires. <i>Nano Letters</i> , 2008 , 8, 237-40	11.5	59
237	Raman spectroscopy study of isolated double-walled carbon nanotubes with different metallic and semiconducting configurations. <i>Nano Letters</i> , 2008 , 8, 3879-86	11.5	71
236	Magnetic properties of individual carbon clusters, clusters inside fullerenes and graphitic nanoribbons. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1535		11
235	Selective optical property modification of double-walled carbon nanotubes by fluorination. <i>ACS Nano</i> , 2008 , 2, 485-8	16.7	60
234	Magnetic behavior in zinc oxide zigzag nanoribbons. <i>Nano Letters</i> , 2008 , 8, 1562-5	11.5	138
233	Guiding electrical current in nanotube circuits using structural defects: a step forward in nanoelectronics. <i>ACS Nano</i> , 2008 , 2, 2585-91	16.7	48
232	Soft purification of N-doped and undoped multi-wall carbon nanotubes. <i>Nanotechnology</i> , 2008 , 19, 155701	9.4	6
231	Production and detailed characterization of bean husk-based carbon: efficient cadmium (II) removal from aqueous solutions. <i>Water Research</i> , 2008 , 42, 3473-9	12.5	15
230	Nonlinear optical absorption and reflection of single wall carbon nanotube thin films by Z-scan technique. <i>Applied Physics Letters</i> , 2008 , 92, 081902	3.4	34
229	An anticorrosive magnesium/carbon nanotube composite. <i>Applied Physics Letters</i> , 2008 , 92, 063105	3.4	24
228	Synthesis and characterization of selenium-carbon nanocables. <i>Nano Letters</i> , 2008 , 8, 3651-5	11.5	15

227	CdSe quantum dot-decorated double walled carbon nanotubes: The effect of chemical moieties. <i>Applied Physics Letters</i> , 2008 , 93, 051901	3.4	11
226	Electron transport properties of ordered networks using carbon nanotubes. <i>Nanotechnology</i> , 2008 , 19, 315704	3.4	23
225	Enhanced ferromagnetism in ZnO nanoribbons and clusters passivated with sulfur. <i>Nano Research</i> , 2008 , 1, 420-426	10	32
224	The two peaks G? band in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2197-2200	3	23
223	Raman study on electrochemical lithium insertion into multiwalled carbon nanotubes. <i>Journal of Raman Spectroscopy</i> , 2008 , 39, 1183-1188	2.3	6
222	Simple synthesis of multiwalled carbon nanotubes from natural resources. <i>ChemSusChem</i> , 2008 , 1, 820-28.3	3	34
221	An atomistic branching mechanism for carbon nanotubes: sulfur as the triggering agent. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2948-53	16.4	69
220	Extreme-Performance Rubber Nanocomposites for Probing and Excavating Deep Oil Resources Using Multi-Walled Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2008 , 18, 3403-3409	15.6	101
219	Robust, Conducting, and Transparent Polymer Composites Using Surface-Modified and Individualized Double-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2008 , 20, 4509-4512	24	54
218	An Atomistic Branching Mechanism for Carbon Nanotubes: Sulfur as the Triggering Agent. <i>Angewandte Chemie</i> , 2008 , 120, 2990-2995	3.6	4
217	Ion irradiation of carbon nanotubes encapsulating cobalt crystals. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 2618-2621	3	10
216	Mechanical behavior of polystyrene grafted carbon nanotubes/polystyrene nanocomposites. <i>Composites Science and Technology</i> , 2008 , 68, 3265-3271	8.6	72
215	Controlling the dimensions, reactivity and crystallinity of multiwalled carbon nanotubes using low ethanol concentrations. <i>Chemical Physics Letters</i> , 2008 , 453, 55-61	2.5	64
214	Effects of novel and stable intermolecular connections in the mechanical and electronic properties of C60 polymerized structures. <i>Chemical Physics Letters</i> , 2008 , 458, 128-133	2.5	11
213	Efficient anchorage of Pt clusters on N-doped carbon nanotubes and their catalytic activity. <i>Chemical Physics Letters</i> , 2008 , 463, 124-129	2.5	83
212	Vibration sample magnetometry, a good tool for the study of nanomagnetic inclusions. <i>Superlattices and Microstructures</i> , 2008 , 43, 482-486	2.8	8
211	Heterodoped nanotubes: theory, synthesis, and characterization of phosphorus-nitrogen doped multiwalled carbon nanotubes. <i>ACS Nano</i> , 2008 , 2, 441-8	16.7	165
210	Carbon Nanotubes and Other Carbon Materials 2008 , 691-706		1

209	In-situ electron irradiation studies of metal-carbon nanostructures 2008 , 121-122		
208	Electron Irradiation Effects in Carbon Nanostructures: Surface Reconstruction, Extreme Compression, Nanotube Growth and Morphology Manipulation 2008 , 155-156		
207	Production and characterization of coaxial nanotube junctions and networks of CNx/CNT. <i>Nano Letters</i> , 2007 , 7, 2220-6	11.5	47
206	Electrical behavior of polymer grafted nanotubes/polymer nanocomposites using N-doped carbon nanotubes. <i>Chemical Physics Letters</i> , 2007 , 444, 1-8	2.5	28
205	Metallic edges in zinc oxide nanoribbons. <i>Chemical Physics Letters</i> , 2007 , 448, 258-263	2.5	48
204	Composition and morphological characteristics of chemically sprayed fluorine-doped zinc oxide thin films deposited on Si(100). <i>Physica B: Condensed Matter</i> , 2007 , 390, 10-16	2.8	7
203	Pure and doped boron nitride nanotubes. <i>Materials Today</i> , 2007 , 10, 30-38	21.8	171
202	Anomalous paramagnetism in doped carbon nanostructures. <i>Small</i> , 2007 , 3, 120-5	11	12
201	Oxidation and thermal stability of linear carbon chains contained in thermally treated double-walled carbon nanotubes. <i>Small</i> , 2007 , 3, 788-92	11	11
200	Architectures from aligned nanotubes using controlled micropatterning of silicon substrates and electrochemical methods. <i>Small</i> , 2007 , 3, 1157-63	11	10
199	Synthesis of SWCNT rings made by two Y junctions and possible applications in electron interferometry. <i>Small</i> , 2007 , 3, 1900-5	11	15
198	Viability studies of pure carbon- and nitrogen-doped nanotubes with <i>Entamoeba histolytica</i> : from amoebicidal to biocompatible structures. <i>Small</i> , 2007 , 3, 1723-9	11	53
197	In situ nucleation of carbon nanotubes by the injection of carbon atoms into metal particles. <i>Nature Nanotechnology</i> , 2007 , 2, 307-11	28.7	195
196	Covalent 2D and 3D networks from 1D nanostructures: designing new materials. <i>Nano Letters</i> , 2007 , 7, 570-6	11.5	191
195	Synthesis and structural characterization of novel flower-like titanium dioxide nanostructures. <i>Physica B: Condensed Matter</i> , 2007 , 390, 143-146	2.8	18
194	Grafting of polystyrene on nitrogen-doped multi-walled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3450-7	1.3	10
193	Magnetic properties of carbon nanostructures. <i>International Journal of Nanotechnology</i> , 2007 , 4, 651	1.5	2
192	Hydrogen storage in nanoporous carbon materials: myth and facts. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1786-92	3.6	124

191	Enhanced thermal conductivity of carbon fiber/phenolic resin composites by the introduction of carbon nanotubes. <i>Applied Physics Letters</i> , 2007 , 90, 093125	3.4	80
190	Doped Carbon Nanotubes: Synthesis, Characterization and Applications. <i>Topics in Applied Physics</i> , 2007 , 531-566	0.5	54
189	Nitrogen-mediated carbon nanotube growth: diameter reduction, metallicity, bundle dispersability, and bamboo-like structure formation. <i>ACS Nano</i> , 2007 , 1, 369-75	16.7	185
188	Determination of chiralities of single-walled carbon nanotubes by neutron powder diffraction technique. <i>Diamond and Related Materials</i> , 2007 , 16, 473-476	3.5	6
187	Selective tuning of the electronic properties of coaxial nanocables through exohedral doping. <i>Nano Letters</i> , 2007 , 7, 2383-8	11.5	41
186	Magnetism in Fe-based and carbon nanostructures: Theory and applications. <i>Solid State Sciences</i> , 2006 , 8, 303-320	3.4	88
185	Fabrication of High-Purity, Double-Walled Carbon Nanotube Buckypaper. <i>Chemical Vapor Deposition</i> , 2006 , 12, 327-330		90
184	Carbon nanotubes as high-pressure cylinders and nanoextruders. <i>Science</i> , 2006 , 312, 1199-202	33.3	243
183	Resonance Raman study of linear carbon chains formed by the heat treatment of double-wall carbon nanotubes. <i>Physical Review B</i> , 2006 , 73,	3.3	73
182	Carbon nanotube supported single phospholipid bilayer. <i>Langmuir</i> , 2006 , 22, 10909-11	4	20
181	Sodium chloride-catalyzed oxidation of multiwalled carbon nanotubes for environmental benefit. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 12017-21	3.4	6
180	Biocompatibility and toxicological studies of carbon nanotubes doped with nitrogen. <i>Nano Letters</i> , 2006 , 6, 1609-16	11.5	305
179	Selective Fabrication of Carbon Nanotube and Their Applications. <i>Journal of Biomedical Nanotechnology</i> , 2006 , 2, 106-108	4	3
178	Efficient anchoring of silver nanoparticles on N-doped carbon nanotubes. <i>Small</i> , 2006 , 2, 346-50	11	138
177	In situ Raman study on single- and double-walled carbon nanotubes as a function of lithium insertion. <i>Small</i> , 2006 , 2, 667-76	11	63
176	Nanotube coalescence-inducing mode: a novel vibrational mode in carbon systems. <i>Small</i> , 2006 , 2, 1031-61		66
175	Efficient coating of N-doped carbon nanotubes with polystyrene using atomic transfer radical polymerization. <i>Chemical Physics Letters</i> , 2006 , 419, 567-573	2.5	50
174	The possible way to evaluate the purity of double-walled carbon nanotubes over single wall carbon nanotubes by chemical doping. <i>Chemical Physics Letters</i> , 2006 , 420, 377-381	2.5	23

173	Synthesis and characterization of long strands of nitrogen-doped single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2006 , 424, 345-352	2.5	173
172	Decorating carbon nanotubes with nanostructured nickel particles via chemical methods. <i>Chemical Physics Letters</i> , 2006 , 431, 104-109	2.5	37
171	Formation of off-centered double-walled carbon nanotubes exhibiting wide interlayer spacing from bi-cables. <i>Chemical Physics Letters</i> , 2006 , 432, 240-244	2.5	5
170	Magnetic response in finite carbon graphene sheets and nanotubes. <i>Optical Materials</i> , 2006 , 29, 110-115	3.3	19
169	Formation of indium-doped zinc oxide thin films using chemical spray techniques: The importance of acetic acid content in the aerosol solution and the substrate temperature for enhancing electrical transport. <i>Thin Solid Films</i> , 2006 , 503, 212-218	2.2	32
168	Production and characterization of single-crystal FeCo nanowires inside carbon nanotubes. <i>Nano Letters</i> , 2005 , 5, 467-72	11.5	150
167	Nanotube brushes: polystyrene grafted covalently on CNx nanotubes by nitroxide-mediated radical polymerization. <i>Chemical Communications</i> , 2005 , 5349-51	5.8	51
166	Ground-state electronic structure of nanoscale carbon cones. <i>Physical Review B</i> , 2005 , 72,	3.3	12
165	Femtosecond laser nanosurgery of defects in carbon nanotubes. <i>Nano Letters</i> , 2005 , 5, 1361-5	11.5	27
164	Synthesis of Mesoporous BN and BCN Exhibiting Large Surface Areas via Templating Methods. <i>Chemistry of Materials</i> , 2005 , 17, 5887-5890	9.6	147
163	Hydrogen storage in spherical nanoporous carbons. <i>Chemical Physics Letters</i> , 2005 , 403, 363-366	2.5	58
162	Synthesis and electronic properties of coalesced graphitic nanocones. <i>Chemical Physics Letters</i> , 2005 , 407, 327-332	2.5	12
161	Pyrolytic synthesis of long strands of large diameter single-walled carbon nanotubes at atmospheric pressure in the absence of sulphur and hydrogen. <i>Chemical Physics Letters</i> , 2005 , 410, 384-390	2.5	34
160	Pore structure and oxidation stability of double-walled carbon nanotube-derived bucky paper. <i>Chemical Physics Letters</i> , 2005 , 414, 444-448	2.5	69
159	Synthesis and state of art characterization of BN bamboo-like nanotubes: Evidence of a root growth mechanism catalyzed by Fe. <i>Chemical Physics Letters</i> , 2005 , 416, 342-348	2.5	38
158	Nanotechnology: 'buckypaper' from coaxial nanotubes. <i>Nature</i> , 2005 , 433, 476	50.4	503
157	Tetrahedral magnetic cluster embedded in metallic matrix: electron-correlation effects. <i>IEEE Transactions on Magnetism</i> , 2005 , 41, 3428-3430	2	
156	Enhanced Nonlinear Transmittance by Complementary Nonlinear Mechanisms: A Reverse-Saturable Absorbing Dye Blended with Nonlinear-Scattering Carbon Nanotubes. <i>Advanced Materials</i> , 2005 , 17, 1239-1243	24	43

155	Cutting single-walled carbon nanotubes with an electron beam: evidence for atom migration inside nanotubes. <i>Small</i> , 2005 , 1, 953-6	11	84
154	Controlling nanotube chirality and crystallinity by doping. <i>Small</i> , 2005 , 1, 1032-4	11	15
153	Creation of helical vortices during magnetization of aligned carbon nanotubes filled with Fe: theory and experiment. <i>Physical Review Letters</i> , 2005 , 94, 216102	7.4	27
152	Growth of double-walled carbon nanotubes using a conditioning catalyst. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 404-8	1.3	6
151	Atomic nanotube welders: boron interstitials triggering connections in double-walled carbon nanotubes. <i>Nano Letters</i> , 2005 , 5, 1099-105	11.5	70
150	Zipper mechanism of nanotube fusion: theory and experiment. <i>Physical Review Letters</i> , 2004 , 92, 075504	7.4	75
149	Banhart, Hernández, and Terrones Reply. <i>Physical Review Letters</i> , 2004 , 92,	7.4	2
148	Fabrication of vapor and gas sensors using films of aligned CN _x nanotubes. <i>Chemical Physics Letters</i> , 2004 , 386, 137-143	2.5	159
147	New direction in nanotube science. <i>Materials Today</i> , 2004 , 7, 30-45	21.8	200
146	Science and Technology of the Twenty-First Century: Synthesis, Properties, and Applications of Carbon Nanotubes. <i>ChemInform</i> , 2004 , 35, no		2
145	Magnetic and transport properties of Fe nanowires encapsulated in carbon nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, E1255-E1257	2.8	5
144	Direct observation of the structure of gold nanoparticles by total scattering powder neutron diffraction. <i>Chemical Physics Letters</i> , 2004 , 393, 385-388	2.5	79
143	Efficient encapsulation of gaseous nitrogen inside carbon nanotubes with bamboo-like structure using aerosol thermolysis. <i>Chemical Physics Letters</i> , 2004 , 396, 167-173	2.5	72
142	Electron emission from individual nitrogen-doped multi-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2004 , 396, 126-130	2.5	42
141	Thermal stability and structural changes of double-walled carbon nanotubes by heat treatment. <i>Chemical Physics Letters</i> , 2004 , 398, 87-92	2.5	185
140	Applications of carbon nanotubes in the twenty-first century. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 2223-38	3	185
139	How to Identify Haeckelite Structures: A Theoretical Study of Their Electronic and Vibrational Properties. <i>Nano Letters</i> , 2004 , 4, 805-810	11.5	56
138	Carbon nanotubes: synthesis and properties, electronic devices and other emerging applications. <i>International Materials Reviews</i> , 2004 , 49, 325-377	16.1	209

137	Shape and complexity at the atomic scale: the case of layered nanomaterials. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 2039-63	3	15
136	Magnetism in Corrugated Carbon Nanotube: The Importance of Symmetry, Defects, and Negative Curvature. <i>Nano Letters</i> , 2004 , 4, 2179-2183	11.5	33
135	Coalescence of Double-Walled Carbon Nanotubes: Formation of Novel Carbon Bicyclics. <i>Nano Letters</i> , 2004 , 4, 1451-1454	11.5	64
134	Protein immobilization on carbon nanotubes via a two-step process of diimide-activated amidation. <i>Journal of Materials Chemistry</i> , 2004 , 14, 37		317
133	Philosophical transactions. Introduction. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 2035-7	3	
132	Raman Characterization of Nitrogen Doped Multiwalled Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 772, 781		24
131	Transitional behaviour in the transformation from active end planes to stable loops caused by annealing. <i>New Journal of Physics</i> , 2003 , 5, 121-121	2.9	33
130	Advances in C _n x Nanotube Growth. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 772, 251		1
129	Curved nanostructured materials. <i>New Journal of Physics</i> , 2003 , 5, 126-126	2.9	140
128	Structure, transport and field-emission properties of compound nanotubes: C _n x vs. BNC _x (x = 1 & 2). <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 76, 499-507	2.6	82
127	Production and State-of-the-Art Characterization of Aligned Nanotubes with Homogeneous BC _x N (1 & 2) Compositions. <i>Advanced Materials</i> , 2003 , 15, 1899-1903	24	53
126	Electronic properties of giant fullerenes and complex graphitic nanostructures with novel morphologies. <i>Chemical Physics Letters</i> , 2003 , 381, 683-690	2.5	16
125	Microstructural changes induced in stacked cup-stacked carbon nanofibers by heat treatment. <i>Carbon</i> , 2003 , 41, 1941-1947	10.4	159
124	Fullerene Coalescence in Nanopeapods: A Path to Novel Tubular Carbon. <i>Nano Letters</i> , 2003 , 3, 1037-1042	2.5	166
123	Selective and Efficient Impregnation of Metal Nanoparticles on Cup-Stacked-Type Carbon Nanofibers. <i>Nano Letters</i> , 2003 , 3, 723-726	11.5	193
122	Nonlinear Behavior in the Thermopower of Doped Carbon Nanotubes Due to Strong, Localized States. <i>Nano Letters</i> , 2003 , 3, 839-842	11.5	66
121	The carbon nanocosmos: novel materials for the twenty-first century. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003 , 361, 2789-806	3	39
120	Theoretical characterization of several models of nanoporous carbon. <i>New Journal of Physics</i> , 2003 , 5, 123-123	2.9	31

119	Selective Attachment of Gold Nanoparticles to Nitrogen-Doped Carbon Nanotubes. <i>Nano Letters</i> , 2003 , 3, 275-277	11.5	486
118	Science and Technology of the Twenty-First Century: Synthesis, Properties, and Applications of Carbon Nanotubes. <i>Annual Review of Materials Research</i> , 2003 , 33, 419-501	12.8	773
117	. <i>IEEE Nanotechnology Magazine</i> , 2003 , 2, 349-354	2.6	13
116	Cables of BN-insulated B ₁₁ N ₁₁ nanotubes. <i>Applied Physics Letters</i> , 2003 , 82, 1275-1277	3.4	32
115	Extreme superheating and supercooling of encapsulated metals in fullerenelike shells. <i>Physical Review Letters</i> , 2003 , 90, 185502	7.4	91
114	N-doping and coalescence of carbon nanotubes: synthesis and electronic properties. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, 355-361	2.6	367
113	Preparation of aligned multi-walled BN and B/C/N nanotubular arrays and their characterization using HRTEM, EELS and energy-filtered TEM. <i>Physica B: Condensed Matter</i> , 2002 , 323, 60-66	2.8	30
112	Synthetic routes to nanoscale B _x C _y N _z architectures. <i>Carbon</i> , 2002 , 40, 1665-1684	10.4	136
111	Nanocomposites: synthesis and elemental mapping of aligned B ₁₁ N ₁₁ nanotubes. <i>Chemical Physics Letters</i> , 2002 , 360, 1-7	2.5	27
110	Structure, Chirality, and Formation of Giant Icosahedral Fullerenes and Spherical Graphitic Onions. <i>Structural Chemistry</i> , 2002 , 13, 373-384	1.8	50
109	Mössbauer Study of Iron-Containing Carbon Nanotubes. <i>Hyperfine Interactions</i> , 2002 , 139/140, 535-542	0.8	55
108	Nanocages of layered BN: Super-high-pressure nanocells for formation of solid nitrogen. <i>Journal of Chemical Physics</i> , 2002 , 116, 8523	3.9	19
107	Hysteresis shift in Fe-filled carbon nanotubes due to δ Fe. <i>Physical Review B</i> , 2002 , 65,	3.3	108
106	SiO ₂ -coated carbon nanotubes: theory and experiment. <i>International Journal of Materials Research</i> , 2002 , 93, 455-458		6
105	Doping and connecting carbon nanotubes. <i>Molecular Crystals and Liquid Crystals</i> , 2002 , 387, 51-62	0.5	6
104	Mössbauer Study of Iron-Containing Carbon Nanotubes 2002 , 535-542		
103	Spatially resolved EELS applied to the study of a one-dimensional solid solution of AgCl _{1-x} I _x formed within single wall carbon nanotubes. <i>AIP Conference Proceedings</i> , 2002 ,	0	2
102	The formation of ReS(2) inorganic fullerene-like structures containing Re(4) parallelogram units and metal-metal bonds. <i>Journal of the American Chemical Society</i> , 2002 , 124, 11580-1	16.4	38

101	Structural characterization of cup-stacked-type nanofibers with an entirely hollow core. <i>Applied Physics Letters</i> , 2002 , 80, 1267-1269	3.4	329
100	Nanotube composites: novel SiO ₂ coated carbon nanotubes. <i>Chemical Communications</i> , 2002 , 34-5	5.8	114
99	Metastable one-dimensional AgCl(1-x)I(x) solid-solution wurzite "tunnel" crystals formed within single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2002 , 124, 2116-7	16.4	61
98	Novel Nanostructures: from Metal-Filled Carbon Nanotubes to MgO Nanoferns 2002 , 11-19		
97	NanoTeflons: Structure and EELS Characterization of Fluorinated Carbon Nanotubes and Nanofibers. <i>Nano Letters</i> , 2002 , 2, 491-496	11.5	64
96	Enhanced Electron Field Emission in B-doped Carbon Nanotubes. <i>Nano Letters</i> , 2002 , 2, 1191-1195	11.5	125
95	Nanotubes in a flash--ignition and reconstruction. <i>Science</i> , 2002 , 296, 705	33.3	221
94	Molecular junctions by joining single-walled carbon nanotubes. <i>Physical Review Letters</i> , 2002 , 89, 075505	7.4	584
93	Novel Nanostructures: from Metal-Filled Carbon Nanotubes to MgO Nanoferns 2002 , 11-19		
92	Advances on the growth and properties of N- and B-doped carbon nanotubes. <i>AIP Conference Proceedings</i> , 2001 ,	0	2
91	Pure and aligned carbon nanotubes produced by the pyrolysis of benzene-based aerosols. <i>AIP Conference Proceedings</i> , 2001 ,	0	3
90	WxMoyCzS ₂ nanotubes. <i>Carbon</i> , 2001 , 39, 1107-1111	10.4	12
89	SiO _x -coating of carbon nanotubes at room temperature. <i>Chemical Physics Letters</i> , 2001 , 339, 41-46	2.5	97
88	Pyrolytic production of aligned carbon nanotubes from homogeneously dispersed benzene-based aerosols. <i>Chemical Physics Letters</i> , 2001 , 338, 101-107	2.5	186
87	Nb-doped WS ₂ nanotubes. <i>Chemical Physics Letters</i> , 2001 , 342, 15-21	2.5	41
86	Graphitic cones in palladium catalysed carbon nanofibres. <i>Chemical Physics Letters</i> , 2001 , 343, 241-250	2.5	138
85	Selective Co-catalysed growth of novel MgO fishbone fractal nanostructures. <i>Chemical Physics Letters</i> , 2001 , 347, 337-343	2.5	121
84	Magnetic and hysteretic properties of Fe-filled nanotubes. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 2117-2119	2	18

83	Comparison study of semi-crystalline and highly crystalline multiwalled carbon nanotubes. <i>Applied Physics Letters</i> , 2001 , 79, 1531-1533	3.4	82
82	Alloy nanowires: Invar inside carbon nanotubes. <i>Chemical Communications</i> , 2001 , 471-472	5.8	80
81	Fullerene Formation 2001 , 3372-3379		
80	Identification of Electron Donor States in N-Doped Carbon Nanotubes. <i>Nano Letters</i> , 2001 , 1, 457-460	11.5	659
79	METAL ATOMS IN CARBON NANOTUBES AND RELATED NANOPARTICLES. <i>International Journal of Modern Physics B</i> , 2001 , 15, 4037-4069	1.1	60
78	Tungsten-Niobium-Sulfur composite nanotubes. <i>Chemical Communications</i> , 2001 , 121-122	5.8	19
77	Metal and alloy nanowires: Iron and invar inside carbon nanotubes. <i>AIP Conference Proceedings</i> , 2001 ,	0	4
76	Defects and coalescence in carbon nanotubes. <i>AIP Conference Proceedings</i> , 2001 ,	0	1
75	Controlled Production of Tubular Carbon and BCN Architecture 2001 , 171-185		
74	Carbon Nanotubes as Nanoreactors for Boriding Iron Nanowires. <i>Advanced Materials</i> , 2000 , 12, 1356-1359	2.4	34
73	Self-assembly of Si nanostructures. <i>Chemical Physics Letters</i> , 2000 , 322, 312-320	2.5	15
72	KCl crystallization within the space between carbon nanotube walls. <i>Chemical Physics Letters</i> , 2000 , 317, 77-82	2.5	20
71	On the electronic structure of WS ₂ nanotubes. <i>Solid State Communications</i> , 2000 , 114, 245-248	1.6	92
70	Novel NbS ₂ metallic nanotubes. <i>Solid State Communications</i> , 2000 , 115, 635-638	1.6	78
69	Metallic behaviour of boron-containing carbon nanotubes. <i>Chemical Physics Letters</i> , 2000 , 323, 572-579	2.5	54
68	Production of WS ₂ Nanotubes. <i>Chemistry of Materials</i> , 2000 , 12, 1190-1194	9.6	88
67	A novel route to aligned nanotubes and nanofibres using laser-patterned catalytic substrates. <i>Applied Physics A: Materials Science and Processing</i> , 2000 , 70, 175-183	2.6	57
66	Generation of hollow crystalline tungsten oxide fibres. <i>Applied Physics A: Materials Science and Processing</i> , 2000 , 70, 231-233	2.6	71

65	Cathodoluminescence of fullerene C60. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 7869-7878	1.8	10
64	New metallic allotropes of planar and tubular carbon. <i>Physical Review Letters</i> , 2000 , 84, 1716-9	7.4	407
63	Coalescence of single-walled carbon nanotubes. <i>Science</i> , 2000 , 288, 1226-9	33.3	425
62	Structure and electronic properties of MoS2 nanotubes. <i>Physical Review Letters</i> , 2000 , 85, 146-9	7.4	432
61	Synthesis of thick and crystalline nanotube arrays by spray pyrolysis. <i>Applied Physics Letters</i> , 2000 , 77, 3385-3387	3.4	163
60	An Alternative Route to Molybdenum Disulfide Nanotubes. <i>Journal of the American Chemical Society</i> , 2000 , 122, 10155-10158	16.4	69
59	C-MoS2 and C-WS2 nanocomposites. <i>Applied Physics Letters</i> , 2000 , 77, 4130-4132	3.4	23
58	Aligned CNx nanotubes by pyrolysis of ferrocene/C60 under NH3 atmosphere. <i>Applied Physics Letters</i> , 2000 , 77, 1807	3.4	107
57	Novel nanoscale gas containers: encapsulation of N2 in CNx nanotubes. <i>Chemical Communications</i> , 2000 , 2335-2336	5.8	118
56	Mixed-Phase WxMoyCzS2 Nanotubes. <i>Chemistry of Materials</i> , 2000 , 12, 3541-3546	9.6	32
55	Morphology, structure and growth of WS2 nanotubes. <i>Journal of Materials Chemistry</i> , 2000 , 10, 2570-2577		54
54	Boron-doping effects in carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2000 , 10, 1425-1429		95
53	Carbon Nanotubes and Nanofibres: Exotic Materials of Carbon. <i>Tanso</i> , 2000 , 2000, 424-433	0.1	2
52	The Improvement of the Bleaching of Peroxyformic Sugar Cane Bagasse Pulp by Photocatalysis and Photosensitization. <i>Journal of the Brazilian Chemical Society</i> , 1999 , 10, 197-202	1.5	7
51	Large-Scale Synthesis of Carbon Nanotubes by Pyrolysis 1999 , 143-152		7
50	Advances in the Creation of Filled Nanotubes and Novel Nanowires. <i>MRS Bulletin</i> , 1999 , 24, 43-49	3.2	66
49	Boron-Mediated Growth of Long Helicity-Selected Carbon Nanotubes. <i>Physical Review Letters</i> , 1999 , 83, 5078-5081	7.4	108
48	Pentagonal rings and nitrogen excess in fullerene-based BN cages and nanotube caps. <i>Chemical Physics Letters</i> , 1999 , 299, 359-367	2.5	95

47	Electrochemical production of low-melting metal nanowires. <i>Chemical Physics Letters</i> , 1999 , 301, 159-166.	2.5	145
46	Tungsten oxide tree-like structures. <i>Chemical Physics Letters</i> , 1999 , 309, 327-334	2.5	145
45	Stable BC ₂ N nanostructures: low-temperature production of segregated C/BN layered materials. <i>Chemical Physics Letters</i> , 1999 , 310, 459-465	2.5	56
44	Solid-phase production of carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 68, 493-495	2.6	11
43	Carbon Nitride Nanocomposites: Formation of Aligned C _x N _y Nanofibers. <i>Advanced Materials</i> , 1999 , 11, 655-658	24	231
42	A Simple Route to Silicon-Based Nanostructures. <i>Advanced Materials</i> , 1999 , 11, 844-847	24	81
41	Efficient route to large arrays of CN _x nanofibers by pyrolysis of ferrocene/melamine mixtures. <i>Applied Physics Letters</i> , 1999 , 75, 3932-3934	3.4	229
40	SiC _{0.5} BiO _x heterojunctions in nanowires. <i>Journal of Materials Chemistry</i> , 1999 , 9, 3173-3178		68
39	Enhanced magnetic coercivities in Fe nanowires. <i>Applied Physics Letters</i> , 1999 , 75, 3363-3365	3.4	276
38	Microscopy Study of the Growth Process and Structural Features of Silicon Oxide Nanoflowers. <i>Chemistry of Materials</i> , 1999 , 11, 2709-2715	9.6	28
37	Electrolytic Formation of Carbon-Sheathed Mixed Sn _{0.5} Pb Nanowires. <i>Chemistry of Materials</i> , 1999 , 11, 1747-1751	9.6	36
36	New advances in the creation of nanostructural materials. <i>Pure and Applied Chemistry</i> , 1999 , 71, 2125-2130		4
35	A Simple Route to Silicon-Based Nanostructures 1999 , 11, 844		1
34	Nanotubes: A Revolution in Materials Science and Electronics. <i>Topics in Current Chemistry</i> , 1999 , 189-234		106
33	Fullerenes and nanotubes with non-positive Gaussian curvature. <i>Carbon</i> , 1998 , 36, 725-730	10.4	19
32	Electrochemical formation of novel nanowires and their dynamic effects. <i>Chemical Physics Letters</i> , 1998 , 284, 177-183	2.5	41
31	Preparation of aligned carbon nanotubes catalysed by laser-etched cobalt thin films. <i>Chemical Physics Letters</i> , 1998 , 285, 299-305	2.5	93
30	Collapsing carbon nanotubes and diamond formation under shock waves. <i>Chemical Physics Letters</i> , 1998 , 287, 689-693	2.5	60

29	Formation of Twisted AB-Graphitic and Fullerene-Related Tubular Structures During Soot Deposition from the Flaming Combustion of Polymers. <i>Combustion and Flame</i> , 1998 , 114, 591-593	5.3	
28	Quantitative density-functional study of nested fullerenes. <i>Physical Review B</i> , 1998 , 57, 13339-13342	3.3	35
27	Novel nanotubes and encapsulated nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 1998 , 66, 307-317	2.6	136
26	Thermolysis of C60 thin films yields Ni-filled tapered nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 1998 , 67, 595-598	2.6	59
25	Photochemical bleaching of chemical pulps catalyzed by titanium dioxide. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1998 , 115, 73-80	4.7	19
24	The Role of Boron Nitride in Graphite Plasma Arcs. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1998 , 6, 787-800		25
23	3D Silicon oxide nanostructures: from nanoflowers to radiolaria. <i>Journal of Materials Chemistry</i> , 1998 , 8, 1859-1864		102
22	Fullerenes with Non-Positive Gaussian Curvature: Holey-Balls and Holey-Tubes. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1998 , 6, 751-767		4
21	Peroxyformic Acid Pulping of Eucalyptus Grandis Wood Chips and Sugar Cane Bagasse in one Stage and Characterization of the Isolated Lignins. <i>Journal of Wood Chemistry and Technology</i> , 1998 , 18, 333-365		36
20	Nanotechnology of nanotubes and nanowires: From aligned carbon nanotubes to silicon oxide nanowires 1998 ,		4
19	Synthetic Routes to Novel Nanomaterials. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1997 , 5, 813-827		5
18	Electronic properties of fullerenes with nonpositive Gaussian curvature: Finite zeolites. <i>Physical Review B</i> , 1997 , 56, 12143-12146	3.3	20
17	Experimental verification of the dominant influence of extended carbon networks on the structural, electrical and magnetic properties of a common soot. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 10661-10673	1.8	9
16	Quasiperiodic icosahedral graphite sheets and high-genus fullerenes with nonpositive Gaussian curvature. <i>Physical Review B</i> , 1997 , 55, 9969-9974	3.3	34
15	Controlled production of aligned-nanotube bundles. <i>Nature</i> , 1997 , 388, 52-55	50.4	690
14	Photoreactivity of lignin model compounds in the photobleaching of chemical pulps 2. Study of the degradation of 4-hydroxy-3-methoxy-benzaldehyde and two lignin fragments induced by singlet oxygen. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1997 , 110, 99-106	4.7	24
13	The transformation of polyhedral particles into graphitic onions. <i>Journal of Physics and Chemistry of Solids</i> , 1997 , 58, 1789-1796	3.9	75
12	Nanoscale Encapsulation of Molybdenum Carbide in Carbon Clusters. <i>Chemistry of Materials</i> , 1996 , 8, 6-8	9.6	40

11	The Role Of Defects In Graphitic Structures. <i>Fullerenes, Nanotubes, and Carbon Nanostructures</i> , 1996 , 4, 517-533		53
10	Electrolytic formation of carbon nanostructures. <i>Chemical Physics Letters</i> , 1996 , 262, 161-166	2.5	196
9	Pyrolytically grown BxCyNz nanomaterials: nanofibres and nanotubes. <i>Chemical Physics Letters</i> , 1996 , 257, 576-582	2.5	200
8	Metal particle catalysed production of nanoscale BN structures. <i>Chemical Physics Letters</i> , 1996 , 259, 568-573	2.5	256
7	Photodelignification of Eucalyptus grandis organosolv chemical pulp. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1996 , 94, 253-262	4.7	14
6	Condensed-phase nanotubes. <i>Nature</i> , 1995 , 377, 687-687	50.4	238
5	Beyond C60: graphite structures for the future. <i>Chemical Society Reviews</i> , 1995 , 24, 341	58.5	60
4	New Horizons in Carbon Chemistry and Materials Science. <i>MRS Bulletin</i> , 1994 , 19, 51-55	3.2	18
3	Data Science Applied to Carbon Materials: Synthesis, Characterization, and Applications. <i>Advanced Theory and Simulations</i> , 2100205	3.5	0
2	Integration of Nitrogen-Doped Graphene Oxide Dots with Au Nanoparticles for Enhanced Electrocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> ,	5.6	2
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