Georg S Duesberg

List of Publications by Year
in descending order

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		8172	3031
271	36,575	76	188
papers	citations	h-index	g-index

277	277	277	36817
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Patterning Functionalized Surfaces of 2D Materials by Nanoshaving. Nanomanufacturing and Metrology, 2022, 5, 23-31.	1.5	1
2	Wafer-scale integration of layered 2D materials by adhesive wafer bonding. , 2022, , .		0
3	Two-Dimensional Platinum Diselenide Waveguide-Integrated Infrared Photodetectors. ACS Photonics, 2022, 9, 859-867.	3.2	14
4	Probing the Impact of Tribolayers on Enhanced Wear Resistance Behavior of Carbon-Rich Molybdenum-Based Coatings. ACS Applied Materials & Interfaces, 2022, 14, 26148-26161.	4.0	10
5	Stacking Polymorphism in PtSe₂ Drastically Affects Its Electromechanical Properties. Advanced Science, 2022, 9, .	5.6	4
6	Tuning the Photoâ€electrochemical Performance of Ru II â€Sensitized Twoâ€Dimensional MoS 2. Chemistry - A European Journal, 2021, 27, 984-992.	1.7	3
7	Highly Selective Nonâ€Covalent Onâ€Chip Functionalization of Layered Materials. Advanced Electronic Materials, 2021, 7, 2000564.	2.6	9
8	Hydrogenation of diamond nanowire surfaces for effective electrostatic charge storage. Nanoscale, 2021, 13, 7308-7321.	2.8	4
9	Synthesis and characterisation of thin-film platinum disulfide and platinum sulfide. Nanoscale, 2021, 13, 7403-7411.	2.8	18
10	Imaging and identification of point defects in PtTe2. Npj 2D Materials and Applications, 2021, 5, .	3.9	29
11	Large-area integration of two-dimensional materials and their heterostructures by wafer bonding. Nature Communications, 2021, 12, 917.	5.8	99
12	Influence of defect density on the gas sensing properties of multi-layered graphene grown by chemical vapor deposition. Carbon Trends, 2021, 3, 100024.	1.4	7
13	Covalent Bisfunctionalization of Twoâ€Dimensional Molybdenum Disulfide. Angewandte Chemie, 2021, 133, 13596-13604.	1.6	2
14	Slippery polymer monoliths: Surface functionalization with ordered MoS2 microparticle arrays. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 617, 126363.	2.3	1
15	Covalent Bisfunctionalization of Twoâ€Dimensional Molybdenum Disulfide. Angewandte Chemie - International Edition, 2021, 60, 13484-13492.	7.2	28
16	Waveguide-Integrated Photodetectors based on 2D Platinum Diselenide. , 2021, , .		1
17	Correlating Nanocrystalline Structure with Electronic Properties in 2D Platinum Diselenide. Advanced Functional Materials, 2021, 31, 2102929.	7.8	17
18	Covalent Patterning of 2D MoS₂. Chemistry - A European Journal, 2021, 27, 13117-13122.	1.7	9

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19	Hybrid Devices by Selective and Conformal Deposition of PtSe₂ at Low Temperatures. Advanced Functional Materials, 2021, 31, 2103936.	7.8	17
20	Postsynthetic treatment of nickelâ€“iron layered double hydroxides for the optimum catalysis of the oxygen evolution reaction. Npj 2D Materials and Applications, 2021, 5, .	3.9	12
21	Large-area growth of MoS₂ at temperatures compatible with integrating back-end-of-line functionality. 2D Materials, 2021, 8, 025008.	2.0	14
22	Borophenes made easy. Science Advances, 2021, 7, eabk1490.	4.7	31
23	Suppression of the metal-insulator transition in magnetron sputtered Ti2O3 films. Thin Solid Films, 2020, 694, 137642.	0.8	8
24	Insights into Multilevel Resistive Switching in Monolayer MoS₂. ACS Applied Materials & Interfaces, 2020, 12, 6022-6029.	4.0	54
25	Investigation of growth-induced strain in monolayer MoS2 grown by chemical vapor deposition. Applied Surface Science, 2020, 508, 145126.	3.1	29
26	Correlation of Material Structure and Electronic Properties in 2D Platinum-Diselenide-based Devices. , 2020, , .		0
27	Functionalization of Contacted Carbon Nanotube Forests by Dip Coating for Highâ€Performance Biocathodes. ChemElectroChem, 2020, 7, 4685-4689.	1.7	6
28	Electronic and structural characterisation of polycrystalline platinum disulfide thin films. RSC Advances, 2020, 10, 42001-42007.	1.7	10
29	Titelbild: Siteâ€Selective Oxidation of Monolayered Liquidâ€Exfoliated WS₂ by Shielding the Basal Plane through Adsorption of a Facial Amphiphile (Angew. Chem. 33/2020). Angewandte Chemie, 2020, 132, 13769-13769.	1.6	0
30	Synthesis of tungsten ditelluride thin films and highly crystalline nanobelts from pre-deposited reactants. Tungsten, 2020, 2, 321-334.	2.0	11
31	Effect of localized helium ion irradiation on the performance of synthetic monolayer MoS₂ field-effect transistors. Beilstein Journal of Nanotechnology, 2020, 11, 1329-1335.	1.5	6
32	Directing the Morphology of Chemical Vapor Depositionâ€Grown MoS₂ on Sapphire by Crystal Plane Selection. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000073.	0.8	9
33	Siteâ€Selective Oxidation of Monolayered Liquidâ€Exfoliated WS₂ by Shielding the Basal Plane through Adsorption of a Facial Amphiphile. Angewandte Chemie, 2020, 132, 13889-13896.	1.6	7
34	Low-Humidity Sensing Properties of Multi-Layered Graphene Grown by Chemical Vapor Deposition. Sensors, 2020, 20, 3174.	2.1	5
35	Low-temperature synthesis and electrocatalytic application of large-area PtTe₂ thin films. Nanotechnology, 2020, 31, 375601.	1.3	23
36	Calibration of Nonstationary Gas Sensors Based on Two-Dimensional Materials. ACS Omega, 2020, 5, 5959-5963.	1.6	20

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37	Defect Engineering of Twoâ€Dimensional Molybdenum Disulfide. Chemistry - A European Journal, 2020, 26, 6535-6544.	1.7	29
38	Rapid and Large-Area Visualization of Grain Boundaries in MoS₂ on SiO₂ Using Vapor Hydrofluoric Acid. ACS Applied Materials & Interfaces, 2020, 12, 34049-34057.	4.0	13
39	Highly Sensitive, Selective, Stable, and Flexible NO₂ Sensor Based on GaSe. Advanced Materials Technologies, 2020, 5, 1901085.	3.0	23
40	AFM-IR and IR-SNOM for the Characterization of Small Molecule Organic Semiconductors. Journal of Physical Chemistry C, 2020, 124, 5331-5344.	1.5	29
41	Sub-millimeter size high mobility single crystal MoSe₂ monolayers synthesized by NaCl-assisted chemical vapor deposition. RSC Advances, 2020, 10, 1580-1587.	1.7	23
42	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.	2.0	333
43	Crystal-structure of active layers of small molecule organic photovoltaics before and after solvent vapor annealing. Zeitschrift Fur Kristallographie - Crystalline Materials, 2020, 235, 15-28.	0.4	6
44	Siteâ€Selective Oxidation of Monolayered Liquidâ€Exfoliated WS₂ by Shielding the Basal Plane through Adsorption of a Facial Amphiphile. Angewandte Chemie - International Edition, 2020, 59, 13785-13792.	7.2	7
45	Spectroscopic thickness and quality metrics for PtSe₂ layers produced by top-down and bottom-up techniques. 2D Materials, 2020, 7, 045027.	2.0	21
46	Nanoelectromechanical Sensors Based on Suspended 2D Materials. Research, 2020, 2020, 8748602.	2.8	93
47	PtSe ₂ grown directly on polymer foil for use as a robust piezoresistive sensor. 2D Materials, 2019, 6, 045029.	2.0	33
48	Nitrogen as a Suitable Replacement for Argon within Methaneâ€Based Hotâ€Wall Graphene Chemical Vapor Deposition. Physica Status Solidi (B): Basic Research, 2019, 256, 1900240.	0.7	2
49	Ultrafast Carrier Dynamics and Bandgap Renormalization in Layered PtSe₂. Small, 2019, 15, e1902728.	5.2	60
50	Defect-moderated oxidative etching of MoS2. Journal of Applied Physics, 2019, 126, .	1.1	12
51	Quantum confinement-induced semimetal-to-semiconductor evolution in large-area ultra-thin PtSe2 films grown at 400â€‰Â°C. Npj 2D Materials and Applications, 2019, 3, .	3.9	69
52	Few-Layer MoS₂/a-Si:H Heterojunction Pin-Photodiodes for Extended Infrared Detection. ACS Photonics, 2019, 6, 1372-1378.	3.2	15
53	Dependence of Photocurrent Enhancements in Hybrid Quantum Dot-MoS₂ Devices on Quantum Dot Emission Wavelength. ACS Photonics, 2019, 6, 976-984.	3.2	9
54	Suppression of the shear Raman mode in defective bilayer MoS2. Journal of Applied Physics, 2019, 125, .	1.1	5

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55	Photoresponsivity enhancement in monolayer MoS2 by rapid O2:Ar plasma treatment. Applied Physics Letters, 2019, 114, .	1.5	16
56	Liquid phase exfoliation of MoO₂ nanosheets for lithium ion battery applications. Nanoscale Advances, 2019, 1, 1560-1570.	2.2	35
57	MoS₂ Memtransistors Fabricated by Localized Helium Ion Beam Irradiation. ACS Nano, 2019, 13, 14262-14273.	7.3	99
58	Perforating Freestanding Molybdenum Disulfide Monolayers with Highly Charged Ions. Journal of Physical Chemistry Letters, 2019, 10, 904-910.	2.1	42
59	Growth of 1Tâ€² MoTe₂ by Thermally Assisted Conversion of Electrodeposited Tellurium Films. ACS Applied Energy Materials, 2019, 2, 521-530.	2.5	30
60	Wide Spectral Photoresponse of Layered Platinum Diselenide-Based Photodiodes. Nano Letters, 2018, 18, 1794-1800.	4.5	140
61	Saturation of Two-Photon Absorption in Layered Transition Metal Dichalcogenides: Experiment and Theory. ACS Photonics, 2018, 5, 1558-1565.	3.2	79
62	Electrical devices from top-down structured platinum diselenide films. Npj 2D Materials and Applications, 2018, 2, .	3.9	74
63	Oxide-mediated recovery of field-effect mobility in plasma-treated MoS ₂. Science Advances, 2018, 4, eaao5031.	4.7	82
64	Induction of Chirality in Two-Dimensional Nanomaterials: Chiral 2D MoS₂ Nanostructures. ACS Nano, 2018, 12, 954-964.	7.3	93
65	Dependence of Photocurrent Enhancements in Quantum Dot (QD)â€Sensitized MoS₂ Devices on MoS₂ Film Properties. Advanced Functional Materials, 2018, 28, 1706149.	7.8	20
66	Effects of Excitonic Resonance on Second and Third Order Nonlinear Scattering from Few-Layer MoS₂. ACS Photonics, 2018, 5, 1235-1240.	3.2	25
67	Fieldâ€Dependent Electrical and Thermal Transport in Polycrystalline WSe₂. Advanced Materials Interfaces, 2018, 5, 1701161.	1.9	17
68	Nonradiative Energy Transfer and Photocurrent Enhancements in Hybrid Quantum Dot-MoS<inf>2</inf> Devices. , 2018, , .		0
69	Defect sizing, separation, and substrate effects in ion-irradiated monolayer two-dimensional materials. Physical Review B, 2018, 98, .	1.1	46
70	Terahertz Spectroscopy of Amorphous WSe2 and MoSe2 Thin Films. Materials, 2018, 11, 1613.	1.3	8
71	Optimized single-layer MoS₂ field-effect transistors by non-covalent functionalisation. Nanoscale, 2018, 10, 17557-17566.	2.8	26
72	Highly Sensitive Electromechanical Piezoresistive Pressure Sensors Based on Large-Area Layered PtSe₂ Films. Nano Letters, 2018, 18, 3738-3745.	4.5	125

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73	Control of the plasmonic near-field in metallic nanohelices. Nanotechnology, 2018, 29, 325204.	1.3	10
74	In Situ Formed Protective Barrier Enabled by Sulfur@Titanium Carbide (MXene) Ink for Achieving Highâ€Capacity, Long Lifetime Liâ€S Batteries. Advanced Science, 2018, 5, 1800502.	5.6	210
75	Wafer-Scale Fabrication of Recessed-Channel PtSe₂ MOSFETs With Low Contact Resistance and Improved Gate Control. IEEE Transactions on Electron Devices, 2018, 65, 4102-4108.	1.6	33
76	Enhanced photoresponse of graphene oxide functionalised SnSe films. AIP Advances, 2018, 8, 075123.	0.6	10
77	Template-free synthesis of mesoporous manganese oxides with catalytic activity in the oxygen evolution reaction. Sustainable Energy and Fuels, 2017, 1, 780-788.	2.5	31
78	Fabrication of self-organized precisely tunable plasmonic SERS substrates via glancing angle deposition. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700088.	0.8	2
79	Oxidation Stability of Colloidal Two-Dimensional Titanium Carbides (MXenes). Chemistry of Materials, 2017, 29, 4848-4856.	3.2	1,120
80	All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. Science, 2017, 356, 69-73.	6.0	391
81	Hot-Volumes as Uniform and Reproducible SERS-Detection Enhancers in Weakly-Coupled Metallic Nanohelices. Scientific Reports, 2017, 7, 45548.	1.6	20
82	Grain boundary-mediated nanopores in molybdenum disulfide grown by chemical vapor deposition. Nanoscale, 2017, 9, 1591-1598.	2.8	31
83	Improving the performance of porous nickel foam for water oxidation using hydrothermally prepared Ni and Fe metal oxides. Sustainable Energy and Fuels, 2017, 1, 207-216.	2.5	38
84	Controlling Defect and Dopant Concentrations in Graphene by Remote Plasma Treatments. Physica Status Solidi (B): Basic Research, 2017, 254, 1700214.	0.7	11
85	Atmospheric pulsed laser deposition and thermal annealing of plasmonic silver nanoparticle films. Nanotechnology, 2017, 28, 445601.	1.3	12
86	Lithium Titanate/Carbon Nanotubes Composites Processed by Ultrasound Irradiation as Anodes for Lithium Ion Batteries. Scientific Reports, 2017, 7, 7614.	1.6	17
87	Transparent, Flexible, and Conductive 2D Titanium Carbide (MXene) Films with High Volumetric Capacitance. Advanced Materials, 2017, 29, 1702678.	11.1	756
88	Synthesis of layered platelets by self-assembly of rhenium-based clusters directed by long-chain amines. Npj 2D Materials and Applications, 2017, 1, .	3.9	3
89	Enabling Flexible Heterostructures for Liâ€Ion Battery Anodes Based on Nanotube and Liquidâ€Phase Exfoliated 2D Gallium Chalcogenide Nanosheet Colloidal Solutions. Small, 2017, 13, 1701677.	5.2	71
90	Raman Spectroscopy of Suspended MoS₂. Physica Status Solidi (B): Basic Research, 2017, 254, 1700218.	0.7	26

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91	Rhenium-doped MoS2 films. Applied Physics Letters, 2017, 111, .	1.5	40
92	Quantum Confinement and Gas Sensing of Mechanically Exfoliated GaSe. Advanced Materials Technologies, 2017, 2, 1600197.	3.0	33
93	Ex-situ plasma doping of MoS<inf>2</inf> thin films synthesised by thermally assisted conversion process: Simulations and experiment. , 2017, , .		0
94	Electrochromic Nickel Oxide Films for Smart Window Applications. International Journal of Electrochemical Science, 2016, 11, 6636-6647.	0.5	60
95	Photoluminescence from Liquidâ€Exfoliated WS₂ Monomers in Poly(Vinyl Alcohol) Polymer Composites. Advanced Functional Materials, 2016, 26, 1028-1039.	7.8	73
96	Functionalization of Twoâ€Dimensional MoS₂: On the Reaction Between MoS₂ and Organic Thiols. Angewandte Chemie - International Edition, 2016, 55, 5803-5808.	7.2	219
97	Structural and Electrical Investigation of MoS₂Thin Films Formed by Thermal Assisted Conversion of Mo Metal. ECS Journal of Solid State Science and Technology, 2016, 5, Q3016-Q3020.	0.9	6
98	The goldilocks electrolyte: examining the performance of iron/nickel oxide thin films as catalysts for electrochemical water splitting in various aqueous NaOH solutions. Journal of Materials Chemistry A, 2016, 4, 11397-11407.	5.2	47
99	Low-Overpotential High-Activity Mixed Manganese and Ruthenium Oxide Electrocatalysts for Oxygen Evolution Reaction in Alkaline Media. ACS Catalysis, 2016, 6, 2408-2415.	5.5	139
100	Long-chain amine-templated synthesis of gallium sulfide and gallium selenide nanotubes. Nanoscale, 2016, 8, 11698-11706.	2.8	11
101	Raman characterization of platinum diselenide thin films. 2D Materials, 2016, 3, 021004.	2.0	172
102	High-Performance Hybrid Electronic Devices from Layered PtSe₂ Films Grown at Low Temperature. ACS Nano, 2016, 10, 9550-9558.	7.3	310
103	Investigations of vapour-phase deposited transition metal dichalcogenide films for future electronic applications. Solid-State Electronics, 2016, 125, 39-51.	0.8	36
104	Dispersion of nonlinear refractive index in layered WS_2 and WSe_2 semiconductor films induced by two-photon absorption. Optics Letters, 2016, 41, 3936.	1.7	86
105	Thermally Prepared Mn₂O₃/RuO₂/Ru Thin Films as Highly Active Catalysts for the Oxygen Evolution Reaction in Alkaline Media. ChemElectroChem, 2016, 3, 1847-1855.	1.7	19
106	Vertical Single-Crystalline Organic Nanowires on Graphene: Solution-Phase Epitaxy and Optical Microcavities. Nano Letters, 2016, 16, 4754-4762.	4.5	24
107	A New 2H-2Hâ€²/1T Cophase in Polycrystalline MoS₂ and MoSe₂ Thin Films. ACS Applied Materials & Interfaces, 2016, 8, 31442-31448.	4.0	33
108	Mapping of Low-Frequency Raman Modes in CVD-Grown Transition Metal Dichalcogenides: Layer Number, Stacking Orientation and Resonant Effects. Scientific Reports, 2016, 6, 19476.	1.6	111

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109	Production of Ni(OH)₂nanosheets by liquid phase exfoliation: from optical properties to electrochemical applications. Journal of Materials Chemistry A, 2016, 4, 11046-11059.	5.2	71
110	A comparison of catabolic pathways induced in primary macrophages by pristine single walled carbon nanotubes and pristine graphene. RSC Advances, 2016, 6, 65299-65310.	1.7	13
111	Functionalization of Twoâ€Dimensional MoS₂: On the Reaction Between MoS₂ and Organic Thiols. Angewandte Chemie, 2016, 128, 5897-5902.	1.6	46
112	Thickness Dependence and Percolation Scaling of Hydrogen Production Rate in MoS₂ Nanosheet and Nanosheetâ€"Carbon Nanotube Composite Catalytic Electrodes. ACS Nano, 2016, 10, 672-683.	7.3	116
113	Comparison of liquid exfoliated transition metal dichalcogenides reveals MoSe₂to be the most effective hydrogen evolution catalyst. Nanoscale, 2016, 8, 5737-5749.	2.8	127
114	A Commercial Conducting Polymer as Both Binder and Conductive Additive for Silicon Nanoparticle-Based Lithium-Ion Battery Negative Electrodes. ACS Nano, 2016, 10, 3702-3713.	7.3	394
115	Spectral sensitivity of graphene/silicon heterojunction photodetectors. Solid-State Electronics, 2016, 115, 207-212.	0.8	65
116	Investigations of vapor phase deposited transition metal dichalcogenide films for future electronic applications. , 2015, , .		1
117	Spin-dependent transport properties of Fe3O4/MoS2/Fe3O4 junctions. Scientific Reports, 2015, 5, 15984.	1.6	53
118	Low wavenumber Raman spectroscopy of highly crystalline MoSe₂grown by chemical vapor deposition. Physica Status Solidi (B): Basic Research, 2015, 252, 2385-2389.	0.7	29
119	Largeâ€Scale Diffusion Barriers from CVD Grown Graphene. Advanced Materials Interfaces, 2015, 2, 1500082.	1.9	12
120	Large area suspended graphene for nano-mechanical devices. Physica Status Solidi (B): Basic Research, 2015, 252, 2429-2432.	0.7	16
121	Growth of high-density carbon nanotube forests on conductive TiSiN supports. Applied Physics Letters, 2015, 106, 083108.	1.5	26
122	Low wavenumber Raman spectroscopy of highly crystalline MoSe2 grown by chemical vapor deposition (Phys. Status Solidi B 11/2015). Physica Status Solidi (B): Basic Research, 2015, 252, .	0.7	0
123	Controlled Folding of Graphene: GraFold Printing. Nano Letters, 2015, 15, 857-863.	4.5	27
124	Noncovalently Functionalized Monolayer Graphene for Sensitivity Enhancement of Surface Plasmon Resonance Immunosensors. Journal of the American Chemical Society, 2015, 137, 2800-2803.	6.6	190
125	Functionalization of Liquidâ€Exfoliated Twoâ€Dimensional 2Hâ€MoS₂. Angewandte Chemie - International Edition, 2015, 54, 2638-2642.	7.2	219
126	Functionalization of Liquidâ€Exfoliated Twoâ€Dimensional 2Hâ€MoS₂. Angewandte Chemie, 2015, 127, 2676-2680.	1.6	35

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127	Direct Observation of Degenerate Two-Photon Absorption and Its Saturation in WS₂ and MoS₂ Monolayer and Few-Layer Films. ACS Nano, 2015, 9, 7142-7150.	7.3	322
128	Nanopatterning and Electrical Tuning of MoS₂ Layers with a Subnanometer Helium Ion Beam. Nano Letters, 2015, 15, 5307-5313.	4.5	171
129	Basal-Plane Functionalization of Chemically Exfoliated Molybdenum Disulfide by Diazonium Salts. ACS Nano, 2015, 9, 6018-6030.	7.3	293
130	Interface and strain effects on the fabrication of suspended CVD graphene devices. Solid-State Electronics, 2015, 108, 75-83.	0.8	12
131	Spectral sensitivity of a graphene/silicon pn-junction photodetector. , 2015, , .		6
132	Investigation of 2D transition metal dichalcogenide films for electronic devices. , 2015, , .		4
133	Preparation of Gallium Sulfide Nanosheets by Liquid Exfoliation and Their Application As Hydrogen Evolution Catalysts. Chemistry of Materials, 2015, 27, 3483-3493.	3.2	195
134	Atomic layer deposition on 2D transition metal chalcogenides: layer dependent reactivity and seeding with organic ad-layers. Chemical Communications, 2015, 51, 16553-16556.	2.2	39
135	On-surface derivatisation of aromatic molecules on graphene: the importance of packing density. Chemical Communications, 2015, 51, 16778-16781.	2.2	14
136	Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. Nature Communications, 2015, 6, 8563.	5.8	921
137	Understanding and optimising the packing density of perylene bisimide layers on CVD-grown graphene. Nanoscale, 2015, 7, 16337-16342.	2.8	25
138	Optimisation of copper catalyst by the addition of chromium for the chemical vapour deposition growth of monolayer graphene. Carbon, 2015, 95, 789-793.	5.4	1
139	Large variations in both dark- and photoconductivity in nanosheet networks as nanomaterial is varied from MoS₂to WTe₂. Nanoscale, 2015, 7, 198-208.	2.8	76
140	Low temperature characterization of CVD graphene devices fabricated with a scalable process route. , 2014, , .		0
141	Graphene field emission devices. Applied Physics Letters, 2014, 105, 103107.	1.5	62
142	Investigation of the optical properties of MoS₂ thin films using spectroscopic ellipsometry. Applied Physics Letters, 2014, 104, 103114.	1.5	255
143	Inkjet-defined field-effect transistors from chemical vapour deposited graphene. Carbon, 2014, 71, 332-337.	5.4	17
144	Field Emission Characteristics of Contact Printed Graphene Fins. Small, 2014, 10, 95-99.	5.2	40

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145	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. Nature Materials, 2014, 13, 624-630.	13.3	1,958
146	Controlled synthesis of transition metal dichalcogenide thin films for electronic applications. Applied Surface Science, 2014, 297, 139-146.	3.1	144
147	Microtransfer Printing: Field Emission Characteristics of Contact Printed Graphene Fins (Small) Tj ETQq1 1 0.784314 rgBT /Overlock 1	5.2	1
148	Strain, Bubbles, Dirt, and Folds: A Study of Graphene Polymerâ€Assisted Transfer. Advanced Materials Interfaces, 2014, 1, 1400115.	1.9	98
149	Production of Molybdenum Trioxide Nanosheets by Liquid Exfoliation and Their Application in High-Performance Supercapacitors. Chemistry of Materials, 2014, 26, 1751-1763.	3.2	266
150	A perfect match. Nature Materials, 2014, 13, 1075-1076.	13.3	68
151	Plasma assisted synthesis of WS2 for gas sensing applications. Chemical Physics Letters, 2014, 615, 6-10.	1.2	150
152	Edge and confinement effects allow in situ measurement of size and thickness of liquid-exfoliated nanosheets. Nature Communications, 2014, 5, 4576.	5.8	432
153	Field emission applications of graphene. , 2014, , .		1
154	Effect of Percolation on the Capacitance of Supercapacitor Electrodes Prepared from Composites of Manganese Dioxide Nanoplatelets and Carbon Nanotubes. ACS Nano, 2014, 8, 9567-9579.	7.3	89
155	Challenges in suspending CVD graphene: More than capillary effects. , 2014, , .		2
156	Molybdenum disulfide/pyrolytic carbon hybrid electrodes for scalable hydrogen evolution. Nanoscale, 2014, 6, 8185.	2.8	48
157	Electroanalytical Sensing Properties of Pristine and Functionalized Multilayer Graphene. Chemistry of Materials, 2014, 26, 1807-1812.	3.2	43
158	Growth optimisation of high quality graphene from ethene at low temperatures. Chemical Physics Letters, 2014, 595-596, 192-196.	1.2	9
159	Nitrogen-doped reduced graphene oxide electrodes for electrochemical supercapacitors. Physical Chemistry Chemical Physics, 2014, 16, 2280.	1.3	87
160	Comparison of carbon nanotube forest growth using AlSi, TiSiN, and TiN as conductive catalyst supports. Physica Status Solidi (B): Basic Research, 2014, 251, 2389-2393.	0.7	9
161	Transition Metal Dichalcogenide Growth via Close Proximity Precursor Supply. Scientific Reports, 2014, 4, 7374.	1.6	72
162	Heterojunction Hybrid Devices from Vapor Phase Grown MoS2. Scientific Reports, 2014, 4, 5458.	1.6	80

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163	Helium ion microscope generated nitrogen-vacancy centres in type Ib diamond. , 2014, , .		0
164	Highly sensitive, transparent, and flexible gas sensors based on gold nanoparticle decorated carbon nanotubes. Sensors and Actuators B: Chemical, 2013, 188, 571-575.	4.0	77
165	Helium ion microscopy of graphene: beam damage, image quality and edge contrast. Nanotechnology, 2013, 24, 335702.	1.3	68
166	Characterization of graphene-silicon Schottky barrier diodes using impedance spectroscopy. Applied Physics Letters, 2013, 103, 193106.	1.5	82
167	Nitrogen-doped pyrolytic carbon films as highly electrochemically active electrodes. Physical Chemistry Chemical Physics, 2013, 15, 18688.	1.3	5
168	Highâ€Performance Sensors Based on Molybdenum Disulfide Thin Films. Advanced Materials, 2013, 25, 6699-6702.	11.1	435
169	The electrical characteristics of high density arrays of silicon nanowire field-effect transistors: Dependence on wire spacing. , 2013, , .		0
170	Investigation of carbon-silicon schottky diodes and their use as chemical sensors. , 2013, , .		6
171	Functionalisation of graphene surfaces with downstream plasma treatments. Carbon, 2013, 54, 283-290.	5.4	77
172	Chemically Modulated Graphene Diodes. Nano Letters, 2013, 13, 2182-2188.	4.5	156
173	Plasma-assisted simultaneous reduction and nitrogen doping of graphene oxide nanosheets. Journal of Materials Chemistry A, 2013, 1, 4431.	5.2	198
174	Investigation of the Interfaces in Schottky Diodes Using Equivalent Circuit Models. ACS Applied Materials & Interfaces, 2013, 5, 6951-6958.	4.0	25
175	Prussian blue-functionalised graphene in the amperometric detection of peroxide and hydrazine. Technology, 2013, 01, 58-62.	1.4	2
176	Origami-based spintronics in graphene. Europhysics Letters, 2013, 104, 47001.	0.7	23
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