## Georg S Duesberg

List of Publications by Year in descending order

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|          |                | 8159         | 3021           |
|----------|----------------|--------------|----------------|
| 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  | Two-Dimensional Nanosheets Produced by Liquid Exfoliation of Layered Materials. Science, 2011, 331, 568-571.  | 6.0  | 6,190     |
| 2  | High-yield production of graphene by liquid-phase exfoliation of graphite. Nature Nanotechnology,<br>2008, 3, 563-568.  | 15.6 | 5,431     |
| 3  | Liquid Phase Production of Graphene by Exfoliation of Graphite in Surfactant/Water Solutions.<br>Journal of the American Chemical Society, 2009, 131, 3611-3620.                  | 6.6  | 2,038     |
| 4  | Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in<br>liquids. Nature Materials, 2014, 13, 624-630.                                | 13.3 | 1,958     |
| 5  | Oxidation Stability of Colloidal Two-Dimensional Titanium Carbides (MXenes). Chemistry of Materials, 2017, 29, 4848-4856.   | 3.2  | 1,120     |
| 6  | Largeâ€Scale Exfoliation of Inorganic Layered Compounds in Aqueous Surfactant Solutions. Advanced<br>Materials, 2011, 23, 3944-3948.  | 11.1 | 1,012     |
| 7  | Liquid exfoliation of solvent-stabilized few-layer black phosphorus for applications beyond electronics. Nature Communications, 2015, 6, 8563.                                    | 5.8  | 921       |
| 8  | Transparent, Flexible, and Conductive 2D Titanium Carbide (MXene) Films with High Volumetric<br>Capacitance. Advanced Materials, 2017, 29, 1702678.                               | 11.1 | 756       |
| 9  | Carbon nanotubes in interconnect applications. Microelectronic Engineering, 2002, 64, 399-408.  | 1.1  | 566       |
| 10 | Highâ€Performance Sensors Based on Molybdenum Disulfide Thin Films. Advanced Materials, 2013, 25,<br>6699-6702.   | 11.1 | 435       |
| 11 | Edge and confinement effects allow in situ measurement of size and thickness of liquid-exfoliated nanosheets. Nature Communications, 2014, 5, 4576.                               | 5.8  | 432       |
| 12 | Polarized Raman Spectroscopy on Isolated Single-Wall Carbon Nanotubes. Physical Review Letters, 2000, 85, 5436-5439.  | 2.9  | 423       |
| 13 | Transparent carbon nanotube coatings. Applied Surface Science, 2005, 252, 425-429.  | 3.1  | 397       |
| 14 | A Commercial Conducting Polymer as Both Binder and Conductive Additive for Silicon<br>Nanoparticle-Based Lithium-Ion Battery Negative Electrodes. ACS Nano, 2016, 10, 3702-3713.  | 7.3  | 394       |
| 15 | All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. Science, 2017, 356, 69-73.   | 6.0  | 391       |
| 16 | Flexible, Transparent, Conducting Films of Randomly Stacked Graphene from Surfactantâ€Stabilized,<br>Oxideâ€Free Graphene Dispersions. Small, 2010, 6, 458-464.                   | 5.2  | 371       |
| 17 | Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.   | 2.0  | 333       |
| 18 | Direct Observation of Degenerate Two-Photon Absorption and Its Saturation in WS <sub>2</sub> and<br>MoS <sub>2</sub> Monolayer and Few-Layer Films. ACS Nano, 2015, 9, 7142-7150. | 7.3  | 322       |

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | High-Performance Hybrid Electronic Devices from Layered PtSe <sub>2</sub> Films Grown at Low<br>Temperature. ACS Nano, 2016, 10, 9550-9558.  | 7.3  | 310       |
| 20 | Basal-Plane Functionalization of Chemically Exfoliated Molybdenum Disulfide by Diazonium Salts. ACS<br>Nano, 2015, 9, 6018-6030.   | 7.3  | 293       |
| 21 | Production of Molybdenum Trioxide Nanosheets by Liquid Exfoliation and Their Application in<br>High-Performance Supercapacitors. Chemistry of Materials, 2014, 26, 1751-1763.              | 3.2  | 266       |
| 22 | Investigation of the optical properties of MoS <sub>2</sub> thin films using spectroscopic ellipsometry. Applied Physics Letters, 2014, 104, 103114.                                       | 1.5  | 255       |
| 23 | Silicon-Nanowire Transistors with Intruded Nickel-Silicide Contacts. Nano Letters, 2006, 6, 2660-2666.   | 4.5  | 231       |
| 24 | Electrochemical ascorbic acid sensor based on DMF-exfoliated graphene. Journal of Materials<br>Chemistry, 2010, 20, 7864.  | 6.7  | 224       |
| 25 | Electrical Characteristics of Molybdenum Disulfide Flakes Produced by Liquid Exfoliation. Advanced<br>Materials, 2011, 23, 4178-4182.  | 11.1 | 224       |
| 26 | Functionalization of Liquidâ€Exfoliated Twoâ€Dimensional 2Hâ€MoS <sub>2</sub> . Angewandte Chemie -<br>International Edition, 2015, 54, 2638-2642.   | 7.2  | 219       |
| 27 | Functionalization of Twoâ€Ðimensional MoS <sub>2</sub> : On the Reaction Between MoS <sub>2</sub><br>and Organic Thiols. Angewandte Chemie - International Edition, 2016, 55, 5803-5808.   | 7.2  | 219       |
| 28 | In Situ Formed Protective Barrier Enabled by Sulfur@Titanium Carbide (MXene) Ink for Achieving<br>Highâ€Capacity, Long Lifetime Liâ€& Batteries. Advanced Science, 2018, 5, 1800502.       | 5.6  | 210       |
| 29 | Plasma-assisted simultaneous reduction and nitrogen doping of graphene oxide nanosheets. Journal<br>of Materials Chemistry A, 2013, 1, 4431.   | 5.2  | 198       |
| 30 | Preparation of Gallium Sulfide Nanosheets by Liquid Exfoliation and Their Application As Hydrogen<br>Evolution Catalysts. Chemistry of Materials, 2015, 27, 3483-3493.                     | 3.2  | 195       |
| 31 | Noncovalently Functionalized Monolayer Graphene for Sensitivity Enhancement of Surface Plasmon<br>Resonance Immunosensors. Journal of the American Chemical Society, 2015, 137, 2800-2803. | 6.6  | 190       |
| 32 | Interconnection of carbon nanotubes by chemical functionalization. Applied Physics Letters, 2002, 80, 3811-3813.   | 1.5  | 188       |
| 33 | How do carbon nanotubes fit into the semiconductor roadmap?. Applied Physics A: Materials Science and Processing, 2005, 80, 1141-1151.   | 1.1  | 172       |
| 34 | Raman characterization of platinum diselenide thin films. 2D Materials, 2016, 3, 021004.   | 2.0  | 172       |
| 35 | Nanopatterning and Electrical Tuning of MoS <sub>2</sub> Layers with a Subnanometer Helium Ion<br>Beam. Nano Letters, 2015, 15, 5307-5313.   | 4.5  | 171       |
| 36 | Nanoscale Mapping of Electrical Resistivity and Connectivity in Graphene Strips and Networks. Nano<br>Letters, 2011, 11, 16-22.  | 4.5  | 170       |

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|----|---|-----|-----------|
| 37 | Raman Modes of Index-Identified Freestanding Single-Walled Carbon Nanotubes. Physical Review<br>Letters, 2005, 95, 217401.  | 2.9 | 169       |
| 38 | Chemical Vapor Deposition Growth of Single-Walled Carbon Nanotubes at 600 °C and a Simple Growth<br>Model. Journal of Physical Chemistry B, 2004, 108, 1888-1893.                                       | 1.2 | 157       |
| 39 | Chemically Modulated Graphene Diodes. Nano Letters, 2013, 13, 2182-2188.  | 4.5 | 156       |
| 40 | Growth and electrical transport of germanium nanowires. Journal of Applied Physics, 2001, 90, 5747-5751.  | 1.1 | 152       |
| 41 | Plasma assisted synthesis of WS2 for gas sensing applications. Chemical Physics Letters, 2014, 615, 6-10.   | 1.2 | 150       |
| 42 | Controlled synthesis of transition metal dichalcogenide thin films for electronic applications.<br>Applied Surface Science, 2014, 297, 139-146.   | 3.1 | 144       |
| 43 | High-Current Nanotube Transistors. Nano Letters, 2004, 4, 831-834.  | 4.5 | 143       |
| 44 | Wide Spectral Photoresponse of Layered Platinum Diselenide-Based Photodiodes. Nano Letters, 2018,<br>18, 1794-1800.   | 4.5 | 140       |
| 45 | Low-Overpotential High-Activity Mixed Manganese and Ruthenium Oxide Electrocatalysts for Oxygen<br>Evolution Reaction in Alkaline Media. ACS Catalysis, 2016, 6, 2408-2415.                             | 5.5 | 139       |
| 46 | Memory and Threshold Resistance Switching in Ni/NiO Core–Shell Nanowires. Nano Letters, 2011, 11,<br>4601-4606.   | 4.5 | 136       |
| 47 | Langmuirâ^'Blodgett Films of Matrix-Diluted Single-Walled Carbon Nanotubes. Chemistry of Materials,<br>1998, 10, 2338-2340.   | 3.2 | 131       |
| 48 | Sub-20 nm Short Channel Carbon Nanotube Transistors. Nano Letters, 2005, 5, 147-150.  | 4.5 | 128       |
| 49 | Comparison of liquid exfoliated transition metal dichalcogenides reveals MoSe <sub>2</sub> to be the most effective hydrogen evolution catalyst. Nanoscale, 2016, 8, 5737-5749.                         | 2.8 | 127       |
| 50 | Highly Sensitive Electromechanical Piezoresistive Pressure Sensors Based on Large-Area Layered<br>PtSe <sub>2</sub> Films. Nano Letters, 2018, 18, 3738-3745.   | 4.5 | 125       |
| 51 | Carbon Nanotube Applications in Microelectronics. IEEE Transactions on Components and Packaging Technologies, 2004, 27, 629-634.  | 1.4 | 121       |
| 52 | Controlled deposition of carbon nanotubes on a patterned substrate. Surface Science, 2000, 462, 195-202.  | 0.8 | 117       |
| 53 | Synthesis and analysis of thin conducting pyrolytic carbon films. Carbon, 2012, 50, 1216-1226.  | 5.4 | 116       |
| 54 | Thickness Dependence and Percolation Scaling of Hydrogen Production Rate in MoS <sub>2</sub><br>Nanosheet and Nanosheet–Carbon Nanotube Composite Catalytic Electrodes. ACS Nano, 2016, 10,<br>672-683. | 7.3 | 116       |

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|----|---|-----|-----------|
| 55 | Mapping of Low-Frequency Raman Modes in CVD-Grown Transition Metal Dichalcogenides: Layer<br>Number, Stacking Orientation and Resonant Effects. Scientific Reports, 2016, 6, 19476.   | 1.6 | 111       |
| 56 | MoS <sub>2</sub> Memtransistors Fabricated by Localized Helium Ion Beam Irradiation. ACS Nano, 2019, 13, 14262-14273.   | 7.3 | 99        |
| 57 | Large-area integration of two-dimensional materials and their heterostructures by wafer bonding.<br>Nature Communications, 2021, 12, 917.   | 5.8 | 99        |
| 58 | Strain, Bubbles, Dirt, and Folds: A Study of Graphene Polymerâ€Assisted Transfer. Advanced Materials<br>Interfaces, 2014, 1, 1400115.   | 1.9 | 98        |
| 59 | Simultaneous electrochemical determination of dopamine and paracetamol based on thin pyrolytic carbon films. Analytical Methods, 2012, 4, 2048.                                       | 1.3 | 95        |
| 60 | The effect of downstream plasma treatments on graphene surfaces. Carbon, 2012, 50, 395-403.   | 5.4 | 95        |
| 61 | Induction of Chirality in Two-Dimensional Nanomaterials: Chiral 2D MoS <sub>2</sub><br>Nanostructures. ACS Nano, 2018, 12, 954-964.   | 7.3 | 93        |
| 62 | Nanoelectromechanical Sensors Based on Suspended 2D Materials. Research, 2020, 2020, 8748602.   | 2.8 | 93        |
| 63 | Raman spectroscopy on single- and multi-walled nanotubes under high pressure. Applied Physics A:<br>Materials Science and Processing, 1999, 69, 309-312.                              | 1.1 | 91        |
| 64 | Towards the integration of carbon nanotubes in microelectronics. Diamond and Related Materials, 2004, 13, 1296-1300.  | 1.8 | 91        |
| 65 | Carbon Nanotubes for Microelectronics?. Small, 2005, 1, 382-390.  | 5.2 | 90        |
| 66 | 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        |
| 67 | Nitrogen-doped reduced graphene oxide electrodes for electrochemical supercapacitors. Physical<br>Chemistry Chemical Physics, 2014, 16, 2280.   | 1.3 | 87        |
| 68 | 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        |
| 69 | Characterization of graphene-silicon Schottky barrier diodes using impedance spectroscopy. Applied<br>Physics Letters, 2013, 103, 193106.   | 1.5 | 82        |
| 70 | Oxide-mediated recovery of field-effect mobility in plasma-treated MoS <sub>2</sub> . Science<br>Advances, 2018, 4, eaao5031.   | 4.7 | 82        |
| 71 | A new purification method for single-wall carbon nanotubes (SWNTs). Applied Physics A: Materials<br>Science and Processing, 2000, 70, 599-602.  | 1.1 | 81        |
| 72 | DMF-exfoliated graphene for electrochemical NADH detection. Physical Chemistry Chemical Physics, 2011. 13. 7747.  | 1.3 | 81        |

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|----|--|-----|-----------|
| 73 | Chromatography of carbon nanotubes. Synthetic Metals, 1999, 103, 2484-2485.  | 2.1 | 80        |
| 74 | Carbon nanotubes for microelectronics: status and future prospects. Materials Science and Engineering C, 2003, 23, 663-669.  | 3.8 | 80        |
| 75 | Heterojunction Hybrid Devices from Vapor Phase Grown MoS2. Scientific Reports, 2014, 4, 5458.  | 1.6 | 80        |
| 76 | Saturation of Two-Photon Absorption in Layered Transition Metal Dichalcogenides: Experiment and Theory. ACS Photonics, 2018, 5, 1558-1565.   | 3.2 | 79        |
| 77 | 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        |
| 78 | Functionalisation of graphene surfaces with downstream plasma treatments. Carbon, 2013, 54, 283-290.   | 5.4 | 77        |
| 79 | Large variations in both dark- and photoconductivity in nanosheet networks as nanomaterial is varied from MoS <sub>2</sub> to WTe <sub>2</sub> . Nanoscale, 2015, 7, 198-208.                    | 2.8 | 76        |
| 80 | Growth of Isolated Carbon Nanotubes with Lithographically Defined Diameter and Location. Nano<br>Letters, 2003, 3, 257-259.  | 4.5 | 75        |
| 81 | Percolation scaling in composites of exfoliated MoS2 filled with nanotubes and graphene. Nanoscale, 2012, 4, 6260.   | 2.8 | 75        |
| 82 | Electrical devices from top-down structured platinum diselenide films. Npj 2D Materials and Applications, 2018, 2, .   | 3.9 | 74        |
| 83 | Reduced contact resistance between an individual single-walled carbon nanotube and a metal electrode by a local point annealing. Nanotechnology, 2007, 18, 095203.                               | 1.3 | 73        |
| 84 | Photoluminescence from Liquidâ€Exfoliated WS <sub>2</sub> Monomers in Poly(Vinyl Alcohol) Polymer<br>Composites. Advanced Functional Materials, 2016, 26, 1028-1039.                             | 7.8 | 73        |
| 85 | Transition Metal Dichalcogenide Growth via Close Proximity Precursor Supply. Scientific Reports, 2014, 4, 7374.  | 1.6 | 72        |
| 86 | Electron diffraction analysis of individual single-walled carbon nanotubes. Ultramicroscopy, 2006,<br>106, 176-190.  | 0.8 | 71        |
| 87 | Production of Ni(OH) <sub>2</sub> nanosheets by liquid phase exfoliation: from optical properties to electrochemical applications. Journal of Materials Chemistry A, 2016, 4, 11046-11059.       | 5.2 | 71        |
| 88 | Enabling Flexible Heterostructures for Liâ€lon Battery Anodes Based on Nanotube and Liquidâ€Phase<br>Exfoliated 2D Gallium Chalcogenide Nanosheet Colloidal Solutions. Small, 2017, 13, 1701677. | 5.2 | 71        |
| 89 | Carbon nanotubes acting like actuators. Carbon, 2002, 40, 1735-1739.   | 5.4 | 70        |
| 90 | lon irradiation induced structural and electrical transition in graphene. Journal of Chemical Physics, 2010, 133, 234703.  | 1.2 | 70        |

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|-----|---|------|-----------|
| 91  | Quantum confinement-induced semimetal-to-semiconductor evolution in large-area ultra-thin PtSe2<br>films grown at 400 °C. Npj 2D Materials and Applications, 2019, 3, . | 3.9  | 69        |
| 92  | Electronic transport in carbon nanotube ropes and mats. Synthetic Metals, 1999, 103, 2547-2550.   | 2.1  | 68        |
| 93  | Helium ion microscopy of graphene: beam damage, image quality and edge contrast. Nanotechnology, 2013, 24, 335702.  | 1.3  | 68        |
| 94  | A perfect match. Nature Materials, 2014, 13, 1075-1076.   | 13.3 | 68        |
| 95  | Large Magnetoresistance in Few Layer Graphene Stacks with Current Perpendicular to Plane Geometry.<br>Advanced Materials, 2012, 24, 1862-1866.                          | 11.1 | 66        |
| 96  | Ways towards the scaleable integration of carbon nanotubes into silicon based technology. Diamond and Related Materials, 2004, 13, 354-361.                             | 1.8  | 65        |
| 97  | Spectral sensitivity of graphene/silicon heterojunction photodetectors. Solid-State Electronics, 2016, 115, 207-212.  | 0.8  | 65        |
| 98  | Graphene field emission devices. Applied Physics Letters, 2014, 105, 103107.  | 1.5  | 62        |
| 99  | In-Situ Contacted Single-Walled Carbon Nanotubes and Contact Improvement by Electroless<br>Deposition. Nano Letters, 2003, 3, 965-968.                                  | 4.5  | 60        |
| 100 | Bias dependence and electrical breakdown of small diameter single-walled carbon nanotubes. Journal<br>of Applied Physics, 2004, 96, 6694-6699.                          | 1.1  | 60        |
| 101 | Electrochromic Nickel Oxide Films for Smart Window Applications. International Journal of Electrochemical Science, 2016, 11, 6636-6647.                                 | 0.5  | 60        |
| 102 | Ultrafast Carrier Dynamics and Bandgap Renormalization in Layered PtSe <sub>2</sub> . Small, 2019, 15, e1902728.  | 5.2  | 60        |
| 103 | Large-scale parallel arrays of silicon nanowires via block copolymer directed self-assembly.<br>Nanoscale, 2012, 4, 3228.   | 2.8  | 59        |
| 104 | Siteâ€5pecific Transferâ€Printing of Individual Graphene Microscale Patterns to Arbitrary Surfaces.<br>Advanced Materials, 2011, 23, 3938-3943.                         | 11.1 | 55        |
| 105 | Towards processing of carbon nanotubes for technical applications. Applied Physics A: Materials<br>Science and Processing, 1999, 69, 269-274.                           | 1.1  | 54        |
| 106 | Insights into Multilevel Resistive Switching in Monolayer MoS <sub>2</sub> . ACS Applied Materials<br>& Interfaces, 2020, 12, 6022-6029.                                | 4.0  | 54        |
| 107 | Spin-dependent transport properties of Fe3O4/MoS2/Fe3O4 junctions. Scientific Reports, 2015, 5, 15984.  | 1.6  | 53        |
| 108 | Molybdenum disulfide/pyrolytic carbon hybrid electrodes for scalable hydrogen evolution.<br>Nanoscale, 2014, 6, 8185.   | 2.8  | 48        |

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|-----|---|------|-----------|
| 109 | 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        |
| 110 | Raman Imaging of Single Carbon Nanotubes. Advanced Materials, 2000, 12, 1210-1214.  | 11.1 | 46        |
| 111 | Functionalization of Twoâ€Dimensional MoS <sub>2</sub> : On the Reaction Between MoS <sub>2</sub><br>and Organic Thiols. Angewandte Chemie, 2016, 128, 5897-5902.   | 1.6  | 46        |
| 112 | Defect sizing, separation, and substrate effects in ion-irradiated monolayer two-dimensional materials. Physical Review B, 2018, 98, .  | 1.1  | 46        |
| 113 | Atom-Resolved Evidence of Anisotropic Growth in ZnS Nanotetrapods. Nano Letters, 2011, 11, 2983-2988.   | 4.5  | 43        |
| 114 | Electroanalytical Sensing Properties of Pristine and Functionalized Multilayer Graphene. Chemistry of Materials, 2014, 26, 1807-1812.   | 3.2  | 43        |
| 115 | Gas phase controlled deposition of high quality large-area graphene films. Chemical Communications, 2010, 46, 1422.   | 2.2  | 42        |
| 116 | Perforating Freestanding Molybdenum Disulfide Monolayers with Highly Charged Ions. Journal of<br>Physical Chemistry Letters, 2019, 10, 904-910.   | 2.1  | 42        |
| 117 | Reversible bending of carbon nanotubes using a transmission electron microscope. Applied Physics<br>Letters, 1998, 73, 1961-1963.   | 1.5  | 41        |
| 118 | Contact improvement of carbon nanotubes via electroless nickel deposition. Applied Physics A:<br>Materials Science and Processing, 2003, 77, 731-734.   | 1.1  | 41        |
| 119 | Hydrothermal functionalisation of single-walled carbon nanotubes. Synthetic Metals, 2004, 142, 263-266.   | 2.1  | 40        |
| 120 | Field Emission Characteristics of Contact Printed Graphene Fins. Small, 2014, 10, 95-99.  | 5.2  | 40        |
| 121 | Rhenium-doped MoS2 films. Applied Physics Letters, 2017, 111, .   | 1.5  | 40        |
| 122 | Decoration of multi-walled carbon nanotubes with noble- and transition-metal clusters and formation of CNT?CNT networks. Applied Physics A: Materials Science and Processing, 2003, 77, 735-738.                                  | 1.1  | 39        |
| 123 | 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        |
| 124 | Intensities of the Raman-active modes in single and multiwall nanotubes. Physical Review B, 2001, 63, .   | 1.1  | 38        |
| 125 | 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        |
| 126 | Investigations of vapour-phase deposited transition metal dichalcogenide films for future electronic applications. Solid-State Electronics, 2016, 125, 39-51.   | 0.8  | 36        |

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|-----|---|-----|-----------|
| 127 | Functionalization of Liquidâ€Exfoliated Twoâ€Dimensional 2Hâ€MoS <sub>2</sub> . Angewandte Chemie, 2015, 127, 2676-2680.  | 1.6 | 35        |
| 128 | Liquid phase exfoliation of MoO <sub>2</sub> nanosheets for lithium ion battery applications.<br>Nanoscale Advances, 2019, 1, 1560-1570.  | 2.2 | 35        |
| 129 | Electrical transport in single-walled carbon nanotube bundles embedded in Langmuir–Blodgett<br>monolayers. Synthetic Metals, 2000, 110, 245-249.  | 2.1 | 34        |
| 130 | Reliable processing of graphene using metal etchmasks. Nanoscale Research Letters, 2011, 6, 390.  | 3.1 | 34        |
| 131 | Transparent ultrathin conducting carbon films. Applied Surface Science, 2010, 256, 6186-6190.   | 3.1 | 33        |
| 132 | A New 2H-2H′/1T Cophase in Polycrystalline MoS <sub>2</sub> and MoSe <sub>2</sub> Thin Films. ACS<br>Applied Materials & Interfaces, 2016, 8, 31442-31448.                                  | 4.0 | 33        |
| 133 | Quantum Confinement and Gas Sensing of Mechanically Exfoliated GaSe. Advanced Materials<br>Technologies, 2017, 2, 1600197.  | 3.0 | 33        |
| 134 | Wafer-Scale Fabrication of Recessed-Channel PtSe <sub>2</sub> MOSFETs With Low Contact<br>Resistance and Improved Gate Control. IEEE Transactions on Electron Devices, 2018, 65, 4102-4108. | 1.6 | 33        |
| 135 | PtSe <sub>2</sub> grown directly on polymer foil for use as a robust piezoresistive sensor. 2D<br>Materials, 2019, 6, 045029.   | 2.0 | 33        |
| 136 | CVD growth and processing of graphene for electronic applications. Physica Status Solidi (B): Basic<br>Research, 2011, 248, 2604-2608.  | 0.7 | 31        |
| 137 | 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        |
| 138 | Grain boundary-mediated nanopores in molybdenum disulfide grown by chemical vapor deposition.<br>Nanoscale, 2017, 9, 1591-1598.   | 2.8 | 31        |
| 139 | Borophenes made easy. Science Advances, 2021, 7, eabk1490.  | 4.7 | 31        |
| 140 | Growth of 1T′ MoTe <sub>2</sub> by Thermally Assisted Conversion of Electrodeposited Tellurium<br>Films. ACS Applied Energy Materials, 2019, 2, 521-530.                                    | 2.5 | 30        |
| 141 | Fluorination of carbon nanotubes with xenon difluoride. Chemical Physics Letters, 2004, 399, 280-283.   | 1.2 | 29        |
| 142 | Low wavenumber Raman spectroscopy of highly crystalline MoSe <sub>2</sub> grown by chemical vapor deposition. Physica Status Solidi (B): Basic Research, 2015, 252, 2385-2389.              | 0.7 | 29        |
| 143 | Investigation of growth-induced strain in monolayer MoS2 grown by chemical vapor deposition.<br>Applied Surface Science, 2020, 508, 145126.   | 3.1 | 29        |
| 144 | Defect Engineering of Twoâ€Đimensional Molybdenum Disulfide. Chemistry - A European Journal, 2020,<br>26, 6535-6544.  | 1.7 | 29        |

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|-----|--|-----|-----------|
| 145 | 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        |
| 146 | Imaging and identification of point defects in PtTe2. Npj 2D Materials and Applications, 2021, 5, .  | 3.9 | 29        |
| 147 | Covalent Bisfunctionalization of Twoâ€Dimensional Molybdenum Disulfide. Angewandte Chemie -<br>International Edition, 2021, 60, 13484-13492.                             | 7.2 | 28        |
| 148 | Controlled Folding of Graphene: GraFold Printing. Nano Letters, 2015, 15, 857-863.   | 4.5 | 27        |
| 149 | Carbon SWNTs as wires and structural templates between nanoelectrodes. Synthetic Metals, 1999, 103, 2540-2542.   | 2.1 | 26        |
| 150 | Silicon nanowires: catalytic growth and electrical characterization. Physica Status Solidi (B): Basic<br>Research, 2006, 243, 3340-3345.                                 | 0.7 | 26        |
| 151 | Growth of high-density carbon nanotube forests on conductive TiSiN supports. Applied Physics<br>Letters, 2015, 106, 083108.  | 1.5 | 26        |
| 152 | Raman Spectroscopy of Suspended MoS <sub>2</sub> . Physica Status Solidi (B): Basic Research, 2017, 254, 1700218.  | 0.7 | 26        |
| 153 | Optimized single-layer MoS <sub>2</sub> field-effect transistors by non-covalent functionalisation.<br>Nanoscale, 2018, 10, 17557-17566.                                 | 2.8 | 26        |
| 154 | Thin film pyrolytic carbon electrodes: A new class of carbon electrode for electroanalytical sensing applications. Electrochemistry Communications, 2010, 12, 1034-1036. | 2.3 | 25        |
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