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Two-dimensional nanosheets produced by liquid exfoliation of layered materials

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2219	In-Plane Heterojunctions Enable Multiphasic Two-Dimensional (2D) MoS <sub>2</sub> Nanosheets As Efficient Photocatalysts for Hydrogen Evolution from Water Reduction.		
2218	Dynamics of Photocatalytic Hydrogen Production in Aqueous Dispersions of Monolayer-Rich Tungsten Disulfide.		
2217	Cu <sup>2+</sup> -Modified Boron Nitride Nanosheets-Supported Subnanometer Gold Nanoparticles: An Oxidase-Mimicking Nanoenzyme with Unexpected Oxidation Properties.		
2216	Electrochemical Interaction of Few-Layer Molybdenum Disulfide Composites vs Sodium: New Insights on the Reaction Mechanism.		
2215	Ultrafast Li <sup>+</sup> Diffusion Kinetics of 2D Oxidized Phosphorus for Quasi-Solid-State Bendable Batteries with Exceptional Energy Densities.		

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2169	Graphene analogues of layered metal selenides. <b>2011</b> , 40, 10322-5	61
2168	Metallic few-layered VS <sub>2</sub> ultrathin nanosheets: high two-dimensional conductivity for in-plane supercapacitors. <b>2011</b> , 133, 17832-8	886
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2117	The properties of BiSb nanoribbons from first-principles calculations. <b>2012</b> , 4, 511-7	8
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2106	Gelatin-assisted fabrication of water-dispersible graphene and its inorganic analogues. <b>2012</b> , 22, 17619	81
2105	Advances in 2D boron nitride nanostructures: nanosheets, nanoribbons, nanomeshes, and hybrids with graphene. <b>2012</b> , 4, 6908-39	611
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2092	Graphene: an emerging electronic material. <b>2012</b> , 24, 5782-825	603
2091	Graphene-based electrodes. <b>2012</b> , 24, 5979-6004	756
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2087	An effective method for the fabrication of few-layer-thick inorganic nanosheets. <b>2012</b> , 51, 9052-6	453
2086	Self-templated synthesis of single-crystal and single-domain ferroelectric nanoplates. <b>2012</b> , 51, 9283-7	64
2085	Enhanced Electrochemical Performance of MoS <sub>2</sub> for Lithium Ion Batteries by Simple Chemical Lithiation. <b>2012</b> , 59, 1196-1200	8
2084	Preparation of MoS <sub>2</sub> /polyvinylpyrrolidone nanocomposites for flexible nonvolatile rewritable memory devices with reduced graphene oxide electrodes. <b>2012</b> , 8, 3517-22	337
2083	Room-temperature intercalation-deintercalation strategy towards VO <sub>2</sub> (B) single layers with atomic thickness. <b>2012</b> , 8, 3752-6	56
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2081	Imaging and diffraction characterisation of 2D inorganic nanostructures. <b>2012</b> , 371, 012071	
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1848	Electronic structural Moiré pattern effects on MoS <sub>2</sub> /MoSe <sub>2</sub> 2D heterostructures. <b>2013</b> , 13, 5485-90	255
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1845	Dimension-dependent phase transition and magnetic properties of VS <sub>2</sub> . <b>2013</b> , 1, 10821	154
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1841	Nitrate uptake by p-phosphonic acid calix[8]arene stabilized graphene. <b>2013</b> , 49, 8172-4	22
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1838	New Algorithm with Bandwidth Reduction for Smaller Size Digital Signature. <b>2013</b> ,	
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1833	A facile, relative green, and inexpensive synthetic approach toward large-scale production of SnS <sub>2</sub> nanoplates for high-performance lithium-ion batteries. <b>2013</b> , 5, 1456-9	158
1832	Nanosheet thickness-modulated MoS <sub>2</sub> dielectric property evidenced by field-effect transistor performance. <b>2013</b> , 5, 548-51	75
1831	Graphene-like two-dimensional materials. <b>2013</b> , 113, 3766-98	3191
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1829	A universal strategy for the hierarchical assembly of functional 0/2D nanohybrids. <b>2013</b> , 49, 1642-4	32
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1822	Growth and characterization of large, high quality MoSe <sub>2</sub> single crystals. <b>2013</b> , 363, 122-127	41
1821	Enhanced photoresponsive ultrathin graphitic-phase C <sub>3</sub> N <sub>4</sub> nanosheets for bioimaging. <b>2013</b> , 135, 18-21	1608
1820	Ultrathin V <sub>2</sub> O <sub>5</sub> nanosheet cathodes: realizing ultrafast reversible lithium storage. <b>2013</b> , 5, 556-60	207
1819	Vertical field-effect transistor based on graphene-WS <sub>2</sub> heterostructures for flexible and transparent electronics. <b>2013</b> , 8, 100-3	1342



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1816	Synthesis and structural transformations of colloidal 2D layered metal chalcogenide nanocrystals. <b>2013</b> , 42, 2581-91	141
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1793	Development of MoS <sub>2</sub> /CNT Composite Thin Film from Layered MoS <sub>2</sub> for Lithium Batteries. <b>2013</b> , 3, 798-805	263
1792	Vapor-solid growth of high optical quality MoS <sub>2</sub> monolayers with near-unity valley polarization. <b>2013</b> , 7, 2768-72	340
1791	Thermoelectric performance of MX <sub>2</sub> (M = Mo,W; X = S,Se) monolayers. <b>2013</b> , 113, 104304	168
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1788	Nonvolatile memory cells based on MoS <sub>2</sub> /graphene heterostructures. <b>2013</b> , 7, 3246-52	762
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1779	An innovative way of etching MoS <sub>2</sub> : Characterization and mechanistic investigation. <b>2013</b> , 6, 200-207	128
1778	Synthesis of MoS <sub>2</sub> and MoSe <sub>2</sub> films with vertically aligned layers. <b>2013</b> , 13, 1341-7	1746
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1776	Controlled synthesis of highly crystalline MoS <sub>2</sub> flakes by chemical vapor deposition. <b>2013</b> , 135, 5304-7	581
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1765	Phonon softening and direct to indirect band gap crossover in strained single-layer MoSe <sub>2</sub> . <b>2013</b> , 87,	162

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1761	Transport into Nanosheets: Diffusion Equations Put to Test. <b>2013</b> , 117, 7384-7390	33
1760	In-plane coassembly route to atomically thick inorganic-organic hybrid nanosheets. <b>2013</b> , 7, 1682-8	44
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1758	Two-Dimensional Molybdenum Trioxide and Dichalcogenides. <b>2013</b> , 23, 3952-3970	378
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1751	Direct laser-patterned micro-supercapacitors from paintable MoS <sub>2</sub> films. <b>2013</b> , 9, 2905-10	401
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1733	Exploration of Structures of Two-Dimensional Boron-Silicon Compounds with sp <sup>2</sup> Silicon. <b>2013</b> , 4, 561-7	64
1732	First-principles analysis of MoS <sub>2</sub> /Ti <sub>2</sub> C and MoS <sub>2</sub> /Ti <sub>2</sub> CY <sub>2</sub> (Y=F and OH) all-2D semiconductor/metal contacts. <b>2013</b> , 87,	133
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1708	Spontaneous ripple formation in MoS <sub>2</sub> monolayers: electronic structure and transport effects. <b>2013</b> , 25, 5473-5	83
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1667	On the mechanism of exfoliation of Vermiculite <b>2013</b> , 48, 563-582	55
1666	ELECTRONIC AND OPTICAL PROPERTIES OF TWO-DIMENSIONAL MoS <sub>2</sub> , WS <sub>2</sub> , AND Mo <sub>0.5</sub> W <sub>0.5</sub> S <sub>2</sub> FROM FIRST-PRINCIPLES. <b>2013</b> ,	
1665	Novel techniques for modifying microtube surfaces with various periodic structures ranging from nano to microscale. <b>2013</b> , 31, 011806	2
1664	Optoelectronic properties of graphene-MoS <sub>2</sub> hybrid. <b>2013</b> , 1505, 1	2
1663	Local-field effects on the plasmon dispersion of two-dimensional transition metal dichalcogenides. <b>2013</b> , 15, 125005	17
1662	Disk-Shaped Colloids: The Synthesis and Applications of ZrP Crystals. <b>2013</b> , 787, 177-183	1
1661	Graphite Oxide. <b>2013</b> , 571-604	
1660	Graphen-analoge anorganische Schichtmaterialien. <b>2013</b> , 125, 13400-13424	40
1659	Metal to semiconductor transition in metallic transition metal dichalcogenides. <b>2013</b> , 114, 174307	24
1658	Synthesis of Potassium Tungsten Bronze Nanosheets by Phase Transformation. <b>2013</b> , 96, 1617-1621	4
1657	Processable and robust MoS <sub>2</sub> paper chemically cross-linked with polymeric ligands by the coordination of divalent metal ions. <b>2013</b> , 8, 817-23	22

1656	Orientation dependent thermal conductance in single-layer MoS <sub>2</sub> . <b>2013</b> , 3, 2209	55
1655	Chemically exfoliated large-area two-dimensional flakes of molybdenum disulfide for device applications. <b>2013</b> , 1, 032102	18
1654	Engineering new layered solids from exfoliated inorganics: a periodically alternating hydrocalcite-montmorillonite layered hybrid. <b>2013</b> , 3, 3498	31
1653	Percolation thresholds of two-dimensional continuum systems of rectangles. <b>2013</b> , 88, 012101	37
1652	Fabrication of MoS <sub>2</sub> -Graphene Nanocomposites by Layer-by-Layer Manipulation for High-Performance Lithium Ion Battery Anodes. <b>2013</b> , 2, M3034-M3039	41
1651	Unusually stable ~100-fold reversible and instantaneous swelling of inorganic layered materials. <b>2013</b> , 4, 1632	109
1650	The development of Green Materials. <b>2013</b> , 1, 201-202	4
1649	Ultrathin Nanosheets of Vanadium Diselenide: A Metallic Two-Dimensional Material with Ferromagnetic Charge-Density-Wave Behavior. <b>2013</b> , 125, 10671-10675	15
1648	Probing the Synthesis of Two-Dimensional Boron by First-Principles Computations. <b>2013</b> , 125, 3238-3241	50
1647	Spin-valley coupling in atomically thin dichalcogenides. <b>2013</b> ,	
1646	Microstructural Characterization of Manganese Oxides Supercapacitors based on Liquid-phase Exfoliated for Energy Storage Applications. <b>2013</b> , 19, 1530-1531	
1645	Stacking stability of MoS <sub>2</sub> bilayer: An ab initio study. <b>2014</b> , 23, 106801	28
1644	(Invited) Wrinkling Graphene with Bacteria and Functionalization of MoS <sub>2</sub> for Electronic Applications. <b>2014</b> , 64, 479-489	
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1642	Growth Mechanism and Surface Functionalization of Metal Chalcogenides Nanostructures. <b>2014</b> , 83-121	1
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1640	Terahertz Optical Conductance of n-type Monolayer MoS <sub>2</sub> . <b>2014</b> , 153, 171-176	
1639	Preparation, Applications of Two-Dimensional Graphene-like Molybdenum Disulfide. <b>2014</b> , 158, 26-42	16

1638	Electronic and transport properties of V-shaped defect zigzag MoS <sub>2</sub> nanoribbons. <b>2014</b> , 23, 047307	7
1637	Chemical Solution Based MoS <sub>2</sub> Thin Film Deposition Based on Dimensional Reduction. <b>2014</b> , 1675, 215-218	1
1636	Formation of 2D transition metal dichalcogenides on TiC <sub>1-x</sub> A <sub>x</sub> surfaces (A = S, Se, Te): A theoretical study. <b>2014</b> , 29, 207-214	2
1635	Dielectric nanosheets made by liquid-phase exfoliation in water and their use in graphene-based electronics. <b>2014</b> , 1, 011012	45
1634	Electric field used as the substitute for ultrasounds in the liquid exfoliation of hexagonal boron nitride. <b>2014</b> , 126, 124-128	14
1633	Towards numerically accurate many-body perturbation theory: short-range correlation effects. <b>2014</b> , 141, 164127	22
1632	Photoluminescence of MoS <sub>2</sub> Prepared by Effective Grinding-Assisted Sonication Exfoliation. <b>2014</b> , 2014, 1-7	19
1631	Polystyrene/MoS <sub>2</sub> @oleylamine nanocomposites. <b>2014</b> ,	4
1630	Silicane and germanane: tight-binding and first-principles studies. <b>2014</b> , 1, 011005	54
1629	Tunable Q-switched fiber laser based on saturable edge-state absorption in few-layer molybdenum disulfide (MoS <sub>2</sub> ). <b>2014</b> , 22, 31113-22	279
1628	Wet chemical thinning of molybdenum disulfide down to its monolayer. <b>2014</b> , 2, 092509	24
1627	Boron nitride nanosheets as oxygen-atom corrosion protective coatings. <b>2014</b> , 104, 143101	56
1626	Metal-semiconductor transition in atomically thin Bi <sub>2</sub> Sr <sub>2</sub> Co <sub>2</sub> O <sub>8</sub> nanosheets. <b>2014</b> , 2, 092507	6
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1624	Integrated solid-state nanopore devices for third generation DNA sequencing. <b>2014</b> , 57, 1925-1935	5
1623	Understanding graphene production by ionic surfactant exfoliation: A molecular dynamics simulation study. <b>2014</b> , 116, 014304	18
1622	Direct detection of DNA below ppb level based on thionin-functionalized layered MoS <sub>2</sub> electrochemical sensors. <b>2014</b> , 86, 12064-9	154
1621	First-principles calculations of a robust two-dimensional boron honeycomb sandwiching a triangular molybdenum layer. <b>2014</b> , 90,	59

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1619	Enhanced and tunable surface plasmons in two-dimensional Ti3C2 stacks: Electronic structure versus boundary effects. <b>2014</b> , 89,	90
1618	Electrochemistry of transition metal dichalcogenides: strong dependence on the metal-to-chalcogen composition and exfoliation method. <b>2014</b> , 8, 12185-98	239
1617	Dibromocarbene Functionalization of Boron Nitride Nanosheets: Toward Band Gap Manipulation and Nanocomposite Applications. <b>2014</b> , 26, 7039-7050	57
1616	Two-dimensional square ternary Cu2MX4 (M = Mo, W; X = S, Se) monolayers and nanoribbons predicted from density functional theory. <b>2014</b> , 89,	23
1615	Multifunctional Schottky-diode circuit comprising palladium/molybdenum disulfide nanosheet. <b>2014</b> , 10, 4845-50	10
1614	Single-layer transition metal dichalcogenide nanosheet-assisted assembly of aggregation-induced emission molecules to form organic nanosheets with enhanced fluorescence. <b>2014</b> , 26, 1735-9	70
1613	Synthesis of Colloidal 2D/3D MoS2 Nanostructures by Pulsed Laser Ablation in an Organic Liquid Environment. <b>2014</b> , 118, 30120-30126	24
1612	Synthesis of MoS2 nano-petal forest supported on carbon nanotubes for enhanced field emission performance. <b>2014</b> , 116, 114305	9
1611	Optical transmission enhancement through chemically tuned two-dimensional bismuth chalcogenide nanoplates. <b>2014</b> , 5, 5670	79
1610	Hierarchical MoS2 shells supported on carbon spheres for highly reversible lithium storage. <b>2014</b> , 20, 5219-23	149
1609	Interplay between structure and electronic properties of layered transition-metal dichalcogenides: Comparing the loss function of 1T and 2H polymorphs. <b>2014</b> , 90,	12
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1607	Design of two-dimensional, ultrathin MoS2 nanoplates fabricated within one-dimensional carbon nanofibers with thermosensitive morphology: high-performance electrocatalysts for the hydrogen evolution reaction. <b>2014</b> , 6, 22126-37	93
1606	Facile synthesis of MoS2 and MoxW1-xS2 triangular monolayers. <b>2014</b> , 2, 092514	75
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1604	Monolayer HNb3O8 for Selective Photocatalytic Oxidation of Benzylic Alcohols with Visible Light Response. <b>2014</b> , 126, 2995-2999	29
1603	Molybdenum disulfide (MoS2) as a broadband saturable absorber for ultra-fast photonics. <b>2014</b> , 22, 7249-60	846

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1600	A promising gene delivery system developed from PEGylated MoS <sub>2</sub> nanosheets for gene therapy. <b>2014</b> , 9, 587	65
1599	Tribological Properties of Epoxy/Aramid Fabric Composites Reinforced by Boron Nitride of Single Layer. <b>2014</b> , 53, 678-683	7
1598	Influence of Milling Media on Mechanically Exfoliated MoS <sub>2</sub> . <b>2014</b> , 4, 32	8
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1595	Tuning the magnetism of a ZrS <sub>2</sub> monolayer by substitutional doping. <b>2014</b> , 4, 54335-54343	31
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1593	Low-Temperature Synthesis of Highly Crystallized Hexagonal Boron Nitride Sheets with Li <sub>3</sub> N as Additive Agent. <b>2014</b> , 2014, 5507-5513	14
1592	Patternable Large-Scale Molybdenum Disulfide Atomic Layers Grown by Gold-Assisted Chemical Vapor Deposition. <b>2014</b> , 126, 1290-1293	16
1591	Nanoscience of Metal Silicate-Based Pigments. <b>2014</b> , 1618, 161-166	0
1590	Tunable Electronic and Dielectric Properties of Molybdenum Disulfide. <b>2014</b> , 53-76	6
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1585	Thermal stability and decomposition kinetics of styrene-butadiene rubber nanocomposites filled with different particle sized kaolinites. <b>2014</b> , 95, 159-166	27

1584	Deriving the colloidal synthesis of crystalline nanosheets to create self-assembly monolayers of nanoclusters. <b>2014</b> , 207, 347-60	14
1583	First-principles study of strained 2D MoS <sub>2</sub> . <b>2014</b> , 56, 416-421	94
1582	A facile molten-salt route to graphene synthesis. <b>2014</b> , 10, 193-200	174
1581	Graphene via sonication assisted liquid-phase exfoliation. <b>2014</b> , 43, 381-98	837
1580	Non-hydrolytic sol-gel synthesis of tantalum sulfides. <b>2014</b> , 69, 596-604	6
1579	25th anniversary article: hybrid nanostructures based on two-dimensional nanomaterials. <b>2014</b> , 26, 2185-204	514
1578	Construction of 2D atomic crystals on transition metal surfaces: graphene, silicene, and hafnene. <b>2014</b> , 10, 2215-25	74
1577	Drug delivery with PEGylated MoS <sub>2</sub> nano-sheets for combined photothermal and chemotherapy of cancer. <b>2014</b> , 26, 3433-40	919
1576	Liquid-exfoliated MoS <sub>2</sub> by chitosan and enhanced mechanical and thermal properties of chitosan/MoS <sub>2</sub> composites. <b>2014</b> , 93, 76-82	81
1575	Graphene and graphene-like layered transition metal dichalcogenides in energy conversion and storage. <b>2014</b> , 10, 2165-81	479
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1573	Will a graphitic-like ZnO single-layer be an ideal substrate for graphene?. <b>2014</b> , 4, 17478	13
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1571	Substrate induced modulation of electronic, magnetic and chemical properties of MoSe <sub>2</sub> monolayer. <b>2014</b> , 4, 047107	8
1570	Exfoliation of Threading Dislocation-Free, Single-Crystalline, Ultrathin Gallium Nitride Nanomembranes. <b>2014</b> , 24, 2305-2311	30
1569	Direct measurements of surface scattering in Si nanosheets using a microscale phonon spectrometer: implications for Casimir-limit predicted by Ziman theory. <b>2014</b> , 14, 403-15	28
1568	Centered Honeycomb NiSe <sub>2</sub> Nanoribbons: Structure and Electronic Properties. <b>2014</b> , 118, 3295-3304	27
1567	High performance few-layer GaS photodetector and its unique photo-response in different gas environments. <b>2014</b> , 6, 2582-7	137

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1563	A generic solvent exchange method to disperse MoS <sub>2</sub> in organic solvents to ease the solution process. <b>2014</b> , 50, 3934-7	63
1562	Preparation of heteroatom doped poly(o-phenylenediamine) fluorescent nanospheres: Tunable fluorescent spectrum and sensing performance. <b>2014</b> , 189, 126-134	37
1561	Exciton diffusion in monolayer and bulk MoSe <sub>2</sub> . <b>2014</b> , 6, 4915-9	79
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1559	Tuning the surface charge of graphene for self-assembly synthesis of a SnNb <sub>2</sub> O <sub>6</sub> nanosheet-graphene (2D-2D) nanocomposite with enhanced visible light photoactivity. <b>2014</b> , 6, 6335-45	127
1558	Nanomechanical and Charge Transport Properties of Two-Dimensional Atomic Sheets. <b>2014</b> , 1, 1300089	28
1557	Coexistence of superconductivity and commensurate charge density wave in 4Hb-TaS <sub>2</sub> single crystals. <b>2014</b> , 115, 043915	12
1556	Scalable production of large quantities of defect-free few-layer graphene by shear exfoliation in liquids. <b>2014</b> , 13, 624-30	1627
1555	General Strategy for Zero-Valent Intercalation into Two-Dimensional Layered Nanomaterials. <b>2014</b> , 26, 2313-2317	47
1554	Synthesis, Properties, and Applications of 2-D Materials: A Comprehensive Review. <b>2014</b> , 39, 231-252	97
1553	Hybrid functional with semi-empirical van der Waals study of native defects in hexagonal BN. <b>2014</b> , 177, 74-79	16
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1549	Titanium oxide nanosheets: graphene analogues with versatile functionalities. <b>2014</b> , 114, 9455-86	482

1548	Hierarchical MoS <sub>2</sub> nanosheet/active carbon fiber cloth as a binder-free and free-standing anode for lithium-ion batteries. <b>2014</b> , 6, 5351-8	184
1547	Enhancing the electrocatalytic water splitting efficiency for amorphous MoS <sub>x</sub> . <b>2014</b> , 39, 4788-4793	37
1546	Monolayer HNb <sub>3</sub> O <sub>8</sub> for selective photocatalytic oxidation of benzylic alcohols with visible light response. <b>2014</b> , 53, 2951-5	171
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1542	Production of aqueous dispersions of inorganic graphene analogues by exfoliation and stabilization with non-ionic surfactants. <b>2014</b> , 4, 14115-14127	90
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1540	Controllable co-segregation synthesis of wafer-scale hexagonal boron nitride thin films. <b>2014</b> , 26, 1776-81	73
1539	Chemical vapor deposition growth of crystalline monolayer MoSe <sub>2</sub> . <b>2014</b> , 8, 5125-31	566
1538	Graphene and graphene-like two-dimensional materials in photodetection: mechanisms and methodology. <b>2014</b> , 8, 4133-56	412
1537	Highly thermally conductive papers with percolative layered boron nitride nanosheets. <b>2014</b> , 8, 3606-13	337
1536	Macroscopic Properties of Restacked, Redox-Liquid Exfoliated Graphite and Graphite Mimics Produced in Bulk Quantities. <b>2014</b> , 24, 4969-4977	4
1535	Epoxy nanocomposites with two-dimensional transition metal dichalcogenide additives. <b>2014</b> , 8, 5282-9	129
1534	Large-area synthesis of monolayer and few-layer MoSe <sub>2</sub> films on SiO <sub>2</sub> substrates. <b>2014</b> , 14, 2419-25	312
1533	Investigation of molybdenum carbide nano-rod as an efficient and durable electrocatalyst for hydrogen evolution in acidic and alkaline media. <b>2014</b> , 154-155, 232-237	162
1532	Aqueous processing of graphene-polymer hybrid thin film nano-composites and gels. <b>2014</b> , 209, 196-203	10
1531	Gas adsorption on MoS <sub>2</sub> monolayer from first-principles calculations. <b>2014</b> , 595-596, 35-42	248



1530	Density functional theory calculations of hydrogen molecule adsorption on monolayer molybdenum and tungsten disulfide. <b>2014</b> , 57, 28-34	13
1529	Graphene-based nanobiocatalytic systems: recent advances and future prospects. <b>2014</b> , 32, 312-20	129
1528	Exfoliation of Graphite Oxide in Water without Sonication: Bridging Length Scales from Nanosheets to Macroscopic Materials. <b>2014</b> , 26, 3334-3339	64
1527	Generalized self-assembly of scalable two-dimensional transition metal oxide nanosheets. <b>2014</b> , 5, 3813	630
1526	Poly(methyl methacrylate)/layered zinc sulfide nanocomposites: Preparation, characterization and the improvements in thermal stability, flame retardant and optical properties. <b>2014</b> , 56, 107-112	14
1525	Effective liquid-phase exfoliation and sodium ion battery application of MoS <sub>2</sub> nanosheets. <b>2014</b> , 6, 7084-9	379
1524	Electronic structure of a quasi-freestanding MoS <sub>2</sub> monolayer. <b>2014</b> , 14, 1312-6	110
1523	MoS <sub>2</sub> field-effect transistor for next-generation label-free biosensors. <b>2014</b> , 8, 3992-4003	704
1522	Inkjet deposition of liquid-exfoliated graphene and MoS <sub>2</sub> nanosheets for printed device applications. <b>2014</b> , 2, 925-932	217
1521	Synthesis of two-dimensional InGa <sub>2</sub> O <sub>3</sub> nanosheets for high-performance solar blind photodetectors. <b>2014</b> , 2, 3254-3259	139
1520	Atomically-thick two-dimensional crystals: electronic structure regulation and energy device construction. <b>2014</b> , 43, 530-46	281
1519	Vapor-phase growth and characterization of Mo(1-x)W(x)S <sub>2</sub> (0 ≤ x ≤ 1) atomic layers on 2-inch sapphire substrates. <b>2014</b> , 6, 624-9	106
1518	Two-Dimensional Nanosheets and Layered Hybrids of MoS <sub>2</sub> and WS <sub>2</sub> through Exfoliation of Ammoniated MS <sub>2</sub> (M = Mo,W). <b>2014</b> , 118, 1386-1396	177
1517	Synthesis of Ag-MoS <sub>2</sub> /chitosan nanocomposite and its application for catalytic oxidation of tryptophan. <b>2014</b> , 192, 42-50	80
1516	Electronic transport and dielectric properties of low-dimensional structures of layered transition metal dichalcogenides. <b>2014</b> , 587, 459-467	25
1515	Growth of noble metal nanoparticles on single-layer TiS <sub>2</sub> and TaS <sub>2</sub> nanosheets for hydrogen evolution reaction. <b>2014</b> , 7, 797-803	292
1514	Facile electrochemical synthesis of uniform Co(OH) <sub>2</sub> nanoplates for high performance supercapacitors. <b>2014</b> , 40, 3485-3493	53
1513	Thermal Conductivity of Exfoliated p-Type Bismuth Antimony Telluride. <b>2014</b> , 43, 320-328	3

1512	Electrochemical characterization of liquid phase exfoliated two-dimensional layers of molybdenum disulfide. <b>2014</b> , 6, 2125-30	97
1511	MoS <sub>2</sub> /graphene composite paper for sodium-ion battery electrodes. <b>2014</b> , 8, 1759-70	973
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1509	Liquid-phase exfoliation of ultrathin layered transition metal dichalcogenide nanosheets composed of solid-solution Mo <sub>1-x</sub> W <sub>x</sub> S <sub>2</sub> . <b>2014</b> , 211, 901-904	6
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1507	Band structure engineering of monolayer MoS <sub>2</sub> on h-BN: first-principles calculations. <b>2014</b> , 47, 075301	77
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1505	Using electron beams to investigate carbonaceous materials. <b>2014</b> , 15, 241-257	7
1504	Strongly-Coupled Freestanding Hybrid Films of Graphene and Layered Titanate Nanosheets: An Effective Way to Tailor the Physicochemical and Antibacterial Properties of Graphene Film. <b>2014</b> , 24, 2288-2294	85
1503	Extraordinary photoresponse in two-dimensional In(2)Se(3) nanosheets. <b>2014</b> , 8, 514-21	272
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1501	Assessment on lattice thermal properties of two-dimensional honeycomb structures: Graphene, h-BN, h-MoS <sub>2</sub> , and h-MoSe <sub>2</sub> . <b>2014</b> , 89,	108
1500	Production of Molybdenum Trioxide Nanosheets by Liquid Exfoliation and Their Application in High-Performance Supercapacitors. <b>2014</b> , 26, 1751-1763	231
1499	Morphology dependence of molybdenum disulfide transparent counter electrode in dye-sensitized solar cells. <b>2014</b> , 2, 3919	129
1498	High yield exfoliation of two-dimensional chalcogenides using sodium naphthalenide. <b>2014</b> , 5, 2995	556
1497	Tuning Electronic Properties of Germanane Layers by External Electric Field and Biaxial Tensile Strain: A Computational Study. <b>2014</b> , 118, 1148-1154	85
1496	Exploration of Nanostructured Functional Materials Based on Hybridization of Inorganic 2D Nanosheets. <b>2014</b> , 118, 3847-3863	104
1495	MoS <sub>2</sub> . <b>2014</b> ,	36

1494	Recent advances in layered transition metal dichalcogenides for hydrogen evolution reaction. <b>2014</b> , 2, 5979-5985	232
1493	Interface properties of CVD grown graphene transferred onto MoS <sub>2</sub> (0001). <b>2014</b> , 6, 1071-8	82
1492	Nano boron nitride flatland. <b>2014</b> , 43, 934-59	499
1491	Exfoliated graphene-like carbon nitride in organic solvents: enhanced photocatalytic activity and highly selective and sensitive sensor for the detection of trace amounts of Cu <sup>2+</sup> . <b>2014</b> , 2, 2563	288
1490	Two dimensional MoO <sub>3</sub> nanoflakes obtained using solvent-assisted grinding and sonication method: Application for H <sub>2</sub> gas sensing. <b>2014</b> , 192, 196-204	157
1489	Topochemical Oxidation Preparation of Regular Hexagonal Manganese Oxide Nanoplates with Birnessite-Type Layered Structure. <b>2014</b> , 14, 5626-5633	23
1488	Continuous Tuning of Band Gap for Conjugated Ni Bis(dithiolene) Complex Bilayer. <b>2014</b> , 118, 25626-25632	15
1487	Effect of strain on electronic and thermoelectric properties of few layers to bulk MoS <sub>2</sub> . <b>2014</b> , 25, 465701	78
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1481	Pulsed Laser Deposition of Photoresponsive Two-Dimensional GaSe Nanosheet Networks. <b>2014</b> , 24, 6365-6371	90
1480	Role of strain on electronic and mechanical response of semiconducting transition-metal dichalcogenide monolayers: An ab-initio study. <b>2014</b> , 115, 243701	94
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1463	Band structure engineering of monolayer MoS <sub>2</sub> by surface ligand functionalization for enhanced photoelectrochemical hydrogen production activity. <b>2014</b> , 6, 13565-71	50
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1123	Graphene Oxide. <b>2015</b> ,	61
1122	Synthesis, Structure, and Characterizations. <b>2015</b> , 1-28	5
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1112	A new method of ethanol catalytic deposition of MoS <sub>2</sub> on tapered fiber for photonic application. <b>2015</b> ,	
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1102	Direct epitaxial CVD synthesis of tungsten disulfide on epitaxial and CVD graphene. <b>2015</b> , 5, 98700-98708	34
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9 <sup>08</sup>	Dispersion of Synthetic MoS Flakes and Their Spontaneous Adsorption on Single-Walled Carbon Nanotubes. <b>2015</b> , 80, 1158-1163	15
9 <sup>07</sup>	Patterning two-dimensional chalcogenide crystals of Bi <sub>2</sub> Se <sub>3</sub> and In <sub>2</sub> Se <sub>3</sub> and efficient photodetectors. <b>2015</b> , 6, 6972	133
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633	A Review on Mechanochemistry: Approaching Advanced Energy Materials with Greener Force.. <b>2022</b> , e2108327	5
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631	Governing Factors for Carbon Nanotube Dispersion in Organic Solvents Estimated by Machine Learning. 2101723	0

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624	Hetero-Integration of Silicon Nanomembranes with 2D Materials for Bioresorbable, Wireless Neurochemical System.. <b>2022</b> , e2108203	3
623	Multiscale Investigation of the Structural, Electrical and Photoluminescence Properties of MoS Obtained by MoO Sulfurization.. <b>2022</b> , 12,	1
622	Flexible 2D Materials beyond Graphene: Synthesis, Properties, and Applications.. <b>2022</b> , e2105383	13
621	MXene Heterostructures as Perspective Materials for Gas Sensing Applications.. <b>2022</b> , 22,	5
620	TiH Nanodots Exfoliated via Facile Sonication as Bifunctional Electrocatalysts for Li-S Batteries.. <b>2022</b> ,	1
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615	High-Performance Boron Nitride-Based Membranes for Water Purification.. <b>2022</b> , 12,	2
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613	Surfactant-assisted preparation of Mo-Co-K sulfide catalysts for the synthesis of low-carbon alcohols via CO <sub>2</sub> hydrogenation. <b>2022</b> , 10, 100256	

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610	Nanosheet-Stabilized Emulsions: Near-Minimum Loading and Surface Energy Design of Conductive Networks.. <b>2022</b> ,	1
609	Biodegradable two-dimensional nanomaterials for cancer theranostics. <b>2022</b> , 458, 214415	1
608	Chapter 4. 2D Inorganic Nanosheet-based Hybrid Photocatalysts for Water Splitting. <b>2022</b> , 170-216	
607	Nickel-adsorbed two-dimensional NbC MXene for enhanced energy storage applications.. <b>2022</b> , 12, 4624-4634	6
606	All Solution-Processed van der Waals Heterostructures for Wafer-Scale Electronics.. <b>2021</b> , e2106110	10
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215	Enhanced Transverse Seebeck Coefficients in 2D/2D PtSe <sub>2</sub> /MoS <sub>2</sub> Heterostructures Using Wet-Transfer Stacking.	0
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