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## Graphene-like two-dimensional materials

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1929	Stability and electronic properties of SiGe-based 2D layered structures. <b>2015</b> , 2, 016301	32
1928	Preface to the special issue on the following topic: Graphene and graphene-related materials growth on surfaces. <b>2015</b> , 634, 1-2	
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1926	Recent advances in the fabrication and structure-specific applications of graphene-based inorganic hybrid membranes. <b>2015</b> , 7, 5080-93	103
1925	Two-dimensional $Cu_2Si$ monolayer with planar hexacoordinate copper and silicon bonding. <b>2015</b> , 137, 2757-62	237
1924	Improving the quality of GaN crystals by using graphene or hexagonal boron nitride nanosheets substrate. <b>2015</b> , 7, 4504-10	52
1923	Giant photoamplification in indirect-bandgap multilayer $MoS_2$ phototransistors with local bottom-gate structures. <b>2015</b> , 27, 2224-30	92
1922	New insights into how RGO influences the photocatalytic performance of $BiOIO_3$ /RGO nanocomposites under visible and UV irradiation. <b>2015</b> , 447, 16-24	64
1921	First-principles prediction of phononic thermal conductivity of silicene: A comparison with graphene. <b>2015</b> , 117, 025102	158
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1919	Effect of polymerization on hierarchical self-assembly into nanosheets. <b>2015</b> , 31, 667-73	13
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1916	Electronic and Chemical Properties of Germanene: The Crucial Role of Buckling. <b>2015</b> , 119, 3802-3809	105
1915	Chemical vapor deposition of thin crystals of layered semiconductor SnS <sub>2</sub> for fast photodetection application. <b>2015</b> , 15, 506-13	342
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1908	Graphene versus MoS <sub>2</sub> : A short review. <b>2015</b> , 10, 287-302	137
1907	A C <sub>3</sub> -symmetric macrocycle-based, hydrogen-bonded, multiporous hexagonal network as a motif of porous molecular crystals. <b>2015</b> , 54, 3008-12	102
1906	Amine-intercalated Zirconium phosphates as lubricant additives. <b>2015</b> , 329, 384-389	46
1905	Photothermoelectric and photovoltaic effects both present in MoS <sub>2</sub> . <b>2015</b> , 5, 7938	72
1904	Highly efficient photothermal effect by atomic-thickness confinement in two-dimensional ZrNCl nanosheets. <b>2015</b> , 9, 1683-91	29
1903	Controllable synthesis of high quality monolayer WS <sub>2</sub> on a SiO <sub>2</sub> /Si substrate by chemical vapor deposition. <b>2015</b> , 5, 15795-15799	52
1902	Carbon nitride nanosheet-supported porphyrin: a new biomimetic catalyst for highly efficient bioanalysis. <b>2015</b> , 7, 543-52	50
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1900	Two-dimensional titanium carbide for efficiently reductive removal of highly toxic chromium(VI) from water. <b>2015</b> , 7, 1795-803	339

1899	A First-Principles Study on Electron Donor and Acceptor Molecules Adsorbed on Phosphorene. <b>2015</b> , 119, 2871-2878	137
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1897	Functionalization of Liquid-Exfoliated Two-Dimensional 2H-MoS <sub>2</sub> . <b>2015</b> , 127, 2676-2680	32
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1895	Facile Synthesis of Mesoporous MoS <sub>2</sub> -TiO <sub>2</sub> Nanofibers for Ultrastable Lithium Ion Battery Anodes. <b>2015</b> , 2, 374-381	45
1894	Selective chemical vapor sensing with few-layer MoS <sub>2</sub> thin-film transistors: Comparison with graphene devices. <b>2015</b> , 106, 023115	97
1893	Vertical heterostructure of two-dimensional MoS <sub>2</sub> and WSe <sub>2</sub> with vertically aligned layers. <b>2015</b> , 15, 1031-5	168
1892	Two-dimensional square-pyramidal VO <sub>2</sub> with tunable electronic properties. <b>2015</b> , 3, 3189-3197	16
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1883	Surface Science Tools for Nanomaterials Characterization. <b>2015</b> ,	8
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1873	(Invited) Heterogeneous Nano- to Wide-Scale Co-Integration of Beyond-Si and Si CMOS Devices to Enhance Future Electronics. <b>2015</b> , 66, 3-14	6
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1870	High-Yield Exfoliation of Ultrathin Two-Dimensional Ternary Chalcogenide Nanosheets for Highly Sensitive and Selective Fluorescence DNA Sensors. <b>2015</b> , 137, 10430-6	187
1869	Heteroatom-Doped Graphene-Based Materials for Energy-Relevant Electrocatalytic Processes. <b>2015</b> , 5, 5207-5234	675
1868	Half-Metallic Ferromagnetism and Surface Functionalization-Induced Metal-Insulator Transition in Graphene-like Two-Dimensional Cr2C Crystals. <b>2015</b> , 7, 17510-5	218
1867	Spin and charge transport in graphene-based spin transport devices with Co/MgO spin injection and spin detection electrodes. <b>2015</b> , 210, 42-55	9
1866	Recent developments in black phosphorus transistors. <b>2015</b> , 3, 8760-8775	128
1865	Tunable electronic and magnetic properties of monolayer MoS2 on decorated AlN nanosheets: a van der Waals density functional study. <b>2015</b> , 17, 23207-13	23
1864	The electronic structure of quasi-free-standing germanene on monolayer MX (M = Ga, In; X = S, Se, Te). <b>2015</b> , 17, 19039-44	22

1863	Quality Heterostructures from Two-Dimensional Crystals Unstable in Air by Their Assembly in Inert Atmosphere. <b>2015</b> , 15, 4914-21	289
1862	Exfoliated semiconducting pure 2H-MoS <sub>2</sub> and 2H-Ws <sub>2</sub> assisted by chlorosulfonic acid. <b>2015</b> , 51, 12950-3	98
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1857	Boron nitride/reduced graphene oxide nanocomposites as supercapacitors electrodes. <b>2015</b> , 159, 54-57	27
1856	Two-Dimensional Pnictogen Honeycomb Lattice: Structure, On-Site Spin-Orbit Coupling and Spin Polarization. <b>2015</b> , 5, 11512	76
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1848	Graphene Induces Formation of Pores That Kill Spherical and Rod-Shaped Bacteria. <b>2015</b> , 9, 8458-67	246
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1823	Determination of formation and ionization energies of charged defects in two-dimensional materials. <b>2015</b> , 114, 196801	63
1822	Electric structure and H <sub>2</sub> adsorption properties of intrinsic and decorated h-ScN sheet by density functional theory. <b>2015</b> , 347, 880-882	7
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