Pavel B Sorokin

List of Publications by Citations

146 papers	5,060 citations	30 h-index	68 g-index
157 ext. papers	6,012 ext. citations	6.3 avg, IF	5.75 L-index

#	Paper	IF	Citations
146	Large scale growth and characterization of atomic hexagonal boron nitride layers. *Nano Letters*, **2010**, 10, 3209-15	11.5	1961
145	Spontaneous doping of the basal plane of MoS single layers through oxygen substitution under ambient conditions. *Nature Chemistry*, **2018**, 10, 1246-1251	17.6	173
144	Diamond-like C2H nanolayer, diamane: Simulation of the structure and properties. *JETP Letters*, **2009**, 90, 134-138	1.2	121
143	Nanomechanical cleavage of molybdenum disulphide atomic layers. *Nature Communications*, **2014**, 5, 3631	17.4	118
142	Phase diagram of quasi-two-dimensional carbon, from graphene to diamond. *Nano Letters*, **2014**, 14, 676-81	11.5	115
141	Tuning of the Optical, Electronic, and Magnetic Properties of Boron Nitride Nanosheets with Oxygen Doping and Functionalization. *Advanced Materials*, **2017**, 29, 1700695	24	109
140	Patterning nanoroads and quantum dots on fluorinated graphene. *Nano Research*, **2011**, 4, 143-152	10	109
139	Construction of Polarized Carbon-Nickel Catalytic Surfaces for Potent, Durable, and Economic Hydrogen Evolution Reactions. *ACS Nano*, **2018**, 12, 4148-4155	16.7	97
138	Biomimetic nanoparticle-engineered superwettable membranes for efficient oil/water separation. *Journal of Membrane Science*, **2021**, 618, 118525	9.6	91
137	Calcium-decorated carbyne networks as hydrogen storage media. *Nano Letters*, **2011**, 11, 2660-5	11.5	85
136	Multifunctional Superelastic Foam-Like Boron Nitride Nanotubular Cellular-Network Architectures. *ACS Nano*, **2017**, 11, 558-568	16.7	76
135	Influence of Size Effect on the Electronic and Elastic Properties of Diamond Films with Nanometer Thickness. *Journal of Physical Chemistry C*, **2011**, 115, 132-136	3.8	65
134	Structure and properties of BeO nanotubes. *Physics of the Solid State*, **2006**, 48, 398-401	0.8	63
133	Flexoelectricity in Carbon Nanostructures: Nanotubes, Fullerenes, and Nanocones. *Journal of Physical Chemistry Letters*, **2015**, 6, 2740-4	6.4	59
132	Two-dimensional semiconducting nanostructures based on single graphene sheets with lines of adsorbed hydrogen atoms. *Applied Physics Letters*, **2007**, 91, 183103	3.4	59
131	Superlattices consisting of lines of adsorbed hydrogen atom pairs on graphene. *JETP Letters*, **2007**, 85, 77-81	1.2	58
130	Highly conductive and transparent films of HAuCl4-doped single-walled carbon nanotubes for flexible applications. *Carbon*, **2018**, 130, 448-457	10.4	52

129	Nanoengineering Structures on Graphene with Adsorbed Hydrogen Lines. *Journal of Physical Chemistry C*, **2010**, 114, 3225-3229	3.8	48
128	Al-based composites reinforced with AlB2, AlN and BN phases: Experimental and theoretical studies. *Materials and Design*, **2018**, 141, 88-98	8.1	47
127	High hydrogen-adsorption-rate material based on graphane decorated with alkali metals. *Physical Review B*, **2012**, 86,	3.3	46
126	Lonsdaleite Films with Nanometer Thickness. *Journal of Physical Chemistry Letters*, **2014**, 5, 541-8	6.4	42
125	Graphene-based semiconductor nanostructures. *Physics-Uspekhi*, **2013**, 56, 105-122	2.8	39
124	The impact of edges and dopants on the work function of graphene nanostructures: The way to high electronic emission from pure carbon medium. *Applied Physics Letters*, **2013**, 102, 183112	3.4	38
123	Proximity-Induced Spin Polarization of Graphene in Contact with Half-Metallic Manganite. *ACS Nano*, **2016**, 10, 7532-41	16.7	36
122	Novel graphene-based nanostructures: physicochemical properties and applications. *Russian Chemical Reviews*, **2014**, 83, 251-279	6.8	34
121	Converting Chemically Functionalized Few-Layer Graphene to Diamond Films: A Computational Study. *Journal of Physical Chemistry C*, **2015**, 119, 2828-2836	3.8	34
120	Intrinsic Edge Asymmetry in Narrow Zigzag Hexagonal Heteroatomic Nanoribbons Causes their Subtle Uniform Curvature. *Journal of Physical Chemistry Letters*, **2012**, 3, 2003-2008	6.4	32
119	Photocatalysis with Pt-Au-ZnO and Au-ZnO Hybrids: Effect of Charge Accumulation and Discharge Properties of Metal Nanoparticles. *Langmuir*, **2018**, 34, 7334-7345	4	32
118	Enhanced electron coherence in atomically thin Nb3SiTe6. *Nature Physics*, **2015**, 11, 471-476	16.2	31
117	The electronic structure and spin states of 2D graphene/VX (X = S, Se) heterostructures. *Physical Chemistry Chemical Physics*, **2016**, 18, 33047-33052	3.6	30
116	Young's Modulus and Tensile Strength of TiC MXene Nanosheets As Revealed by TEM Probing, AFM Nanomechanical Mapping, and Theoretical Calculations. *Nano Letters*, **2020**, 20, 5900-5908	11.5	29
115	Translation symmetry breakdown in low-dimensional lattices of pentagonal rings. *Journal of Physical Chemistry Letters*, **2015**, 6, 4525-31	6.4	26
114	Spontaneous graphitization of ultrathin cubic structures: a computational study. *Nano Letters*, **2014**, 14, 7126-30	11.5	26
113	Density functional study of <110>-oriented thin silicon nanowires. *Physical Review B*, **2008**, 77,	3.3	26
112	Nanostructuring few-layer graphene films with swift heavy ions for electronic application: tuning of electronic and transport properties. *Nanoscale*, **2018**, 10, 14499-14509	7.7	26

111	Transition Metal Chalcogenide Single Layers as an Active Platform for Single-Atom Catalysis. *ACS Energy Letters*, **2019**, 4, 1947-1953	20.1	25
110	Mussel-inspired structure evolution customizing membrane interface hydrophilization. *Journal of Membrane Science*, **2020**, 612, 118471	9.6	25
109	One-atom-thick 2D copper oxide clusters on graphene. *Nanoscale*, **2017**, 9, 3980-3985	7.7	24
108	Direct Fabrication of Functional Ultrathin Single-Crystal Nanowires from Quasi-One-Dimensional van der Waals Crystals. *Nano Letters*, **2016**, 16, 6188-6195	11.5	24
107	Effect of Ultrahigh Stiffness of Defective Graphene from Atomistic Point of View. *Journal of Physical Chemistry Letters*, **2015**, 6, 2384-7	6.4	24
106	Statistically Analyzed Photoresponse of Elastically Bent CdS Nanowires Probed by Light-Compatible In Situ High-Resolution TEM. *Nano Letters*, **2016**, 16, 6008-6013	11.5	24
105	Bilayered semiconductor graphene nanostructures with periodically arranged hexagonal holes. *Nano Research*, **2015**, 8, 1250-1258	10	23
104	Metal-semiconductor (semimetal) superlattices on a graphite sheet with vacancies. *JETP Letters*, **2006**, 84, 115-118	1.2	23
103	Two-Dimensional Diamond-Diamane: Current State and Further Prospects. *Nano Letters*, **2021**, 21, 5475-5484	11.5	23
102	Contracted interlayer distance in graphene/sapphire heterostructure. *Nano Research*, **2015**, 8, 1535-1545	10	22
101	Toward Stronger Al/BN Nanotube Composite Materials: Insights into Bonding at the Al/BN Interface from First-Principles Calculations. *Journal of Physical Chemistry C*, **2014**, 118, 26894-26901	3.8	21
100	Features of Electronic, Mechanical, and Electromechanical Properties of Fluorinated Diamond Films of Nanometer Thickness. *Journal of Physical Chemistry C*, **2017**, 121, 28484-28489	3.8	21
99	Bio-inspired mineral-hydrogel hybrid coating on hydrophobic PVDF membrane boosting oil/water emulsion separation. *Separation and Purification Technology*, **2022**, 285, 120383	8.3	19
98	Pressure-Induced Transformation of Graphite and Diamond to Onions. *Crystals*, **2018**, 8, 68	2.3	19
97	Phase diagram of carbon and the factors limiting the quantity and size of natural diamonds. *Nanotechnology*, **2018**, 29, 115603	3.4	18
96	Radiation-Induced Nucleation of Diamond from Amorphous Carbon: Effect of Hydrogen. *Journal of Physical Chemistry Letters*, **2014**, 5, 1924-8	6.4	17
95	The Theoretical Study of Mechanical Properties of Graphene Membranes. *Fullerenes Nanotubes and Carbon Nanostructures*, **2010**, 18, 497-500	1.8	16
94	Boron carbide nanoparticles for high-hardness ceramics: Crystal lattice defects after treatment in a planetary ball mill. *Journal of the European Ceramic Society*, **2017**, 37, 1349-1353	6	15

93	Structural analysis and atomic simulation of Ag/BN nanoparticle hybrids obtained by Ag ion implantation. *Materials and Design*, **2016**, 98, 167-173	8.1	15
92	Determination of ultrathin diamond films by Raman spectroscopy. *Physica Status Solidi (B): Basic Research*, **2012**, 249, 1550-1554	1.3	15
91	Graphene-based semiconductor nanostructures. *Uspekhi Fizicheskikh Nauk*, **2013**, 183, 113-132	0.5	15
90	Density-functional theory study of the electronic structure of thin SiO2 quantum nanodots and nanowires. *Physical Review B*, **2007**, 75,	3.3	15
89	Holey single-walled carbon nanotubes for ultra-fast broadband bolometers. *Nanoscale*, **2018**, 10, 18665-18671	7.7	15
88	BN nanoparticle/Ag hybrids with enhanced catalytic activity: theory and experiments. *Catalysis Science and Technology*, **2018**, 8, 1652-1662	5.5	14
87	Mechanical properties and current-carrying capacity of Al reinforced with graphene/BN nanoribbons: a computational study. *Nanoscale*, **2016**, 8, 20080-20089	7.7	14
86	Nano-Thermodynamics of Chemically Induced Graphene-Diamond Transformation. *Small*, **2020**, 16, e2004782	11	14
85	2D FeO: A New Member in 2D Metal Oxide Family. *Journal of Physical Chemistry C*, **2018**, 122, 17389-17394	3.8	14
84	Fullerite-based nanocomposites with ultrahigh stiffness. Theoretical investigation. *Carbon*, **2017**, 115, 546-549	10.4	13
83	Hole-doping of mechanically exfoliated graphene by confined hydration layers. *Nano Research*, **2015**, 8, 3020-3026	10	13
82	Strong Influence of Graphane Island Configurations on the Electronic Properties of a Mixed Graphene/Graphane Superlattice. *Journal of Physical Chemistry C*, **2012**, 116, 20035-20039	3.8	13
81	The unexpected stability of multiwall nanotubes under high pressure and shear deformation. *Applied Physics Letters*, **2016**, 109, 081904	3.4	13
80	Elastic properties of nanopolycrystalline diamond: The nature of ultrahigh stiffness. *Applied Physics Letters*, **2015**, 107, 121904	3.4	12
79	Nonstoichiometric Phases of Two-Dimensional Transition-Metal Dichalcogenides: From Chalcogen Vacancies to Pure Metal Membranes. *Journal of Physical Chemistry Letters*, **2019**, 10, 6492-6498	6.4	12
78	Toward the Ultra-incompressible Carbon Materials. Computational Simulation and Experimental Observation. *Journal of Physical Chemistry Letters*, **2015**, 6, 2147-52	6.4	12
77	New boron barrelenes and tubulenes. *JETP Letters*, **2008**, 87, 489-493	1.2	12
76	Electronic superlattices and waveguides based on graphene: structures, properties and applications. *Physica Status Solidi (B): Basic Research*, **2008**, 245, 2086-2089	1.3	12

75	Silica nanotube multi-terminal junctions as a coating for carbon nanotube junctions. *Physical Review B*, **2006**, 74,	3.3	12
74	Ultrasmall diamond nanoparticles with unusual incompressibility. *Diamond and Related Materials*, **2019**, 96, 52-57	3.5	11
73	MoS decoration by Mo-atoms and the MoS Mo-graphene heterostructure: a theoretical study. *Physical Chemistry Chemical Physics*, **2015**, 17, 28770-3	3.6	11
72	Graphitic Phase of NaCl. Bulk Properties and Nanoscale Stability. *Journal of Physical Chemistry Letters*, **2014**, 5, 4014-9	6.4	11
71	Atypical quantum confinement effect in silicon nanowires. *Journal of Physical Chemistry A*, **2008**, 112, 9955-64	2.8	11
70	Quantum dots embedded into silicon nanowires effectively partition electron confinement. *Journal of Applied Physics*, **2008**, 104, 054305	2.5	11
69	Atomic and Electronic Structure of New Hollow-Based Symmetric Families of Silicon Nanoclusters. *Journal of Physical Chemistry C*, **2007**, 111, 18824-18830	3.8	11
68	Dirac Cone Spin Polarization of Graphene by Magnetic Insulator Proximity Effect Probed with Outermost Surface Spin Spectroscopy. *Advanced Functional Materials*, **2018**, 28, 1800462	15.6	10
67	Nanostructured BN-Mg composites: features of interface bonding and mechanical properties. *Physical Chemistry Chemical Physics*, **2016**, 18, 965-9	3.6	10
66	Mechanical and electronic properties of carbon nanotube graphene compounds. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 2927-2930	1.3	10
65	Multiterminal Nanowire Junctions of Silicon: A Theoretical Prediction of Atomic Structure and Electronic Properties. *Nano Letters*, **2007**, 7, 2063-2067	11.5	10
64	Band-gap unification of partially Si-substituted single-wall carbon nanotubes. *Physical Review B*, **2006**, 74,	3.3	10
63	Diamond third-order elastic constants: ab initio calculations and experimental investigation. *Journal of Materials Science*, **2017**, 52, 3447-3456	4.3	9
62	Influence of Native Defects on the Electronic and Magnetic Properties of CVD Grown MoSe2 Single Layers. *Journal of Physical Chemistry C*, **2019**, 123, 24855-24864	3.8	9
61	Investigation of new superhard carbon allotropes with promising electronic properties. *Journal of Applied Physics*, **2013**, 114, 183708	2.5	9
60	Graphene/Half-Metallic Heusler Alloy: A Novel Heterostructure toward High-Performance Graphene Spintronic Devices. *Advanced Materials*, **2020**, 32, e1905734	24	9
59	Heterostructures based on graphene and MoS2 layers decorated by C60 fullerenes. *Nanotechnology*, **2016**, 27, 365201	3.4	9
58	Mechanical, Electrical, and Crystallographic Property Dynamics of Bent and Strained Ge/Si Core-Shell Nanowires As Revealed by in situ Transmission Electron Microscopy. *Nano Letters*, **2018**, 18, 7238-7246	11.5	9

57	Study of the New Two-Dimensional Compound CoC. *JETP Letters*, **2018**, 108, 13-17	1.2	9
56	High yield production of ultrathin fibroid semiconducting nanowire of Ta2Pd3Se8. *Nano Research*, **2020**, 13, 1627-1635	10	8
55	Energy and electronic properties of non-carbon nanotubes based on silicon dioxide. *Physics of the Solid State*, **2006**, 48, 2021-2027	0.8	8
54	Semiconductor nanochannels in metallic carbon nanotubes by thermomechanical chirality alteration.. *Science*, **2021**, 374, 1616-1620	33.3	8
53	Two-Dimensional CuO Inside the Supportive Bilayer Graphene Matrix. *Journal of Physical Chemistry C*, **2019**, 123, 17459-17465	3.8	7
52	Crystallography-Derived Young's Modulus and Tensile Strength of AlN Nanowires as Revealed by in Situ Transmission Electron Microscopy. *Nano Letters*, **2019**, 19, 2084-2091	11.5	7
51	Layered heterostructures based on graphene, hexagonal zinc oxide and molybdenum disulfide: Modeling of geometry and electronic properties. *Computational Materials Science*, **2018**, 142, 32-37	3.2	7
50	Ultrasharp h-BN Nanocones and the Origin of Their High Mechanical Stiffness and Large Dipole Moment. *Journal of Physical Chemistry Letters*, **2018**, 9, 5086-5091	6.4	7
49	Magnesium Boride Nanotubes: Relative Stability and Atomic and Electronic Structure. *Journal of Physical Chemistry C*, **2010**, 114, 4852-4856	3.8	7
48	Ab initio study of hydrogen chemical adsorption on platinum surface/carbon nanotube join system. *Physica Status Solidi (B): Basic Research*, **2008**, 245, 1546-1551	1.3	7
47	Carbon at the nanoscale: Ultrastiffness and unambiguous definition of incompressibility. *Carbon*, **2020**, 160, 228-235	10.4	7
46	Al□BN interaction in a high-strength lightweight Al/BN metal-matrix composite: Theoretical modelling and experimental verification. *Journal of Alloys and Compounds*, **2019**, 782, 875-880	5.7	7
45	Experimental and Theoretical Study of Doxorubicin Physicochemical Interaction with BN(O) Drug Delivery Nanocarriers. *Journal of Physical Chemistry C*, **2018**, 122, 26409-26418	3.8	7
44	Line and rotational defects in boron-nitrene: Structure, energetics, and dependence on mechanical strain from first-principles calculations. *Physica Status Solidi (B): Basic Research*, **2015**, 252, 1725-1730	1.3	6
43	Opto-mechano-electrical tripling in ZnO nanowires probed by photocurrent spectroscopy in a high-resolution transmission electron microscope. *Applied Physics Letters*, **2015**, 107, 091103	3.4	6
42	Specific Response of the Atomic and Electronic Structure of Ta2Pd3Se8 and Ta2Pt3Se8 Nanoribbons to the Uniaxial Strain. *Journal of Physical Chemistry C*, **2020**, 124, 7539-7543	3.8	6
41	Ionic Graphitization of Ultrathin Films of Ionic Compounds. *Journal of Physical Chemistry Letters*, **2016**, 7, 2659-63	6.4	6
40	Chirality transitions and transport properties of individual few-walled carbon nanotubes as revealed by in situ TEM probing. *Ultramicroscopy*, **2018**, 194, 108-116	3.1	6

39	Adhesion of Single-Walled Carbon Nanotube Thin Films with Different Materials. *Journal of Physical Chemistry Letters*, **2020**, 11, 504-509	6.4	6
38	Estimation of graphene surface stability against the adsorption of environmental and technological chemical agents. *Physica Status Solidi (B): Basic Research*, **2017**, 254, 1600702	1.3	5
37	Compressive properties of hollow BN nanoparticles: theoretical modeling and testing using a high-resolution transmission electron microscope. *Nanoscale*, **2018**, 10, 8099-8105	7.7	5
36	Quantum Transport of the 2D Surface State in a Nonsymmorphic Semimetal. *Nano Letters*, **2021**, 21, 4887-4893	11.5	5
35	Insights into the regularity of the formation of 2D 3d transition metal monocarbides. *Nanoscale*, **2020**, 12, 13407-13413	7.7	4
34	Theoretical aspects of WS□anotube chemical unzipping. *Nanoscale*, **2014**, 6, 8400-4	7.7	4
33	Theoretical study of atomic structure and elastic properties of branched silicon nanowires. *ACS Nano*, **2010**, 4, 2784-90	16.7	4
32	Effective fluorination of single-layer graphene by high-energy ion irradiation through a LiF overlayer. *RSC Advances*, **2016**, 6, 68525-68529	3.7	4
31	Plasma Surface Polymerized and Biomarker Conjugated Boron Nitride Nanoparticles for Cancer-Specific Therapy: Experimental and Theoretical Study. *Nanomaterials*, **2019**, 9,	5.4	4
30	Highly efficient bilateral doping of single-walled carbon nanotubes. *Journal of Materials Chemistry C* , **2021**, 9, 4514-4521	7.1	4
29	Novel hybrid C/BN two-dimensional heterostructures. *Nanotechnology*, **2017**, 28, 085205	3.4	3
28	New allotropic forms of carbon based on □0 and □0 fullerenes with specific mechanical characteristics. *JETP Letters*, **2017**, 105, 419-425	1.2	3
27	On the Edge of Bilayered Graphene: Unexpected Atomic Geometry and Specific Electronic Properties. *Journal of Physical Chemistry Letters*, **2020**, 11, 5871-5876	6.4	3
26	Interface-induced perpendicular magnetic anisotropy of Co nanoparticles on single-layer h-BN/Pt(111). *Applied Physics Letters*, **2018**, 112, 022407	3.4	3
25	Theoretical study of elastic properties of SiC nanowires of different shapes. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 4992-7	1.3	3
24	Density and thermodynamics of hydrogen adsorbed on the surface of single-walled carbon nanotubes. *Physics of the Solid State*, **2006**, 48, 402-407	0.8	3
23	Optimization of the calculations of the electronic structure of carbon nanotubes. *Physics of the Solid State*, **2005**, 47, 2196	0.8	3
22	The direct exchange mechanism of induced spin polarization of low-dimensional □-conjugated carbon- and h-BN fragments at LSMO(001) MnO-terminated interfaces. *Journal of Magnetism and Magnetic Materials*, **2017**, 440, 23-29	2.8	2

21	High spin polarization at the Fe/C60 interface in the Fe-doped C60 film. *Synthetic Metals*, **2013**, 173, 22-25	3.6	2
20	Nanostructuring of CVD graphene by high-energy heavy ions. *Diamond and Related Materials*, **2022**, 123, 108880	3.5	2
19	Non-chemical fluorination of hexagonal boron nitride by high-energy ion irradiation. *Nanotechnology*, **2020**, 31, 125705	3.4	2
18	Phase diagram of carbon. *Materials Today: Proceedings*, **2018**, 5, 26179-26182	1.4	2
17	Bilayer graphenes with antidots: structures, properties and applications. *Journal of Physics: Conference Series*, **2018**, 1092, 012018	0.3	2
16	Theoretical Investigation of the Interfaces and Mechanisms of Induced Spin Polarization of 1D Narrow Zigzag Graphene- and h-BN Nanoribbons on a SrO-Terminated LSMO(001) Surface. *Journal of Physical Chemistry A*, **2017**, 121, 680-689	2.8	1
15	Stability and gas sensing properties of TaXM (X = Pd, Pt; M = S, Se) nanoribbons: a first-principles investigation. *Physical Chemistry Chemical Physics*, **2020**, 22, 14651-14659	3.6	1
14	Mechanical Properties of the Interface of Al/SiC Heteroparticles and Their Composites: a Theoretical and Experimental Study. *Technical Physics Letters*, **2020**, 46, 342-345	0.7	1
13	Prospects of Spin Catalysis on Spin-Polarized Graphene Heterostructures. *Australian Journal of Chemistry*, **2016**, 69, 753	1.2	1
12	A key role of tensile strain and surface termination in formation and properties of La0.7Sr0.3MnO3 composites with carbon nanotubes. *Computational Materials Science*, **2017**, 139, 125-131	3.2	1
11	Metallic beta-phase silicon nanowires: Structure and electronic properties. *JETP Letters*, **2010**, 92, 352-355	1.2	1
10	Optomechanical Properties of MoSe Nanosheets as Revealed by Transmission Electron Microscopy.. *Nano Letters*, **2022**,	11.5	1
9	GrapheneDiamond Transformation: Nano-Thermodynamics of Chemically Induced GrapheneDiamond Transformation (Small 47/2020). *Small*, **2020**, 16, 2070256	11	1
8	The possible formation of a magnetic FeS phase in the two-dimensional MoS matrix. *Physical Chemistry Chemical Physics*, **2016**, 18, 26956-26959	3.6	1
7	Investigation of atomically thin films: state of the art. *Physics-Uspekhi*, **2021**, 64, 28-47	2.8	1
6	Extended UV detection bandwidth: h-BN/Al powder nanocomposites photodetectors sensitive in a middle UV region due to localized surface plasmon resonance effect. *Europhysics Letters*, **2021**, 133, 28002	1.6	1
5	Intermediate carbon phase. New experimental data and atomic model. *Diamond and Related Materials*, **2022**, 123, 108825	3.5	0
4	Insights into fullerene polymerization under the high pressure: The role of endohedral Sc dimer. *Carbon*, **2022**, 189, 37-45	10.4	0

3	Kinking effects and transport properties of coaxial BN-C nanotubes as revealed by in situ transmission electron microscopy and theoretical analysis. *APL Materials*, **2019**, 7, 101118	5.7
2	THEORETICAL STUDY AND EXPERIMENTAL INVESTIGATION OF HYDROGEN ABSORPTION BY CARBON NANOMATERIALS **2007**, 127-132	
1	Spintronic Devices: Graphene/Half-Metallic Heusler Alloy: A Novel Heterostructure toward High-Performance Graphene Spintronic Devices (Adv. Mater. 6/2020). *Advanced Materials*, **2020**, 32, 2070043	24