

Robert Vajtai

List of Publications by Year in descending order

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Version: 2024-02-01

430
papers

44,156
citations

1893

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436
times ranked

47081
citing authors

#	ARTICLE	IF	CITATIONS
1	Wettability alteration using functionalized nanoparticles with tailored adhesion to the rock surface for condensate banking mitigation. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, 1265-1284.	1.7	2
2	Amine-Functionalized Carbon Nanodot Electrocatalysts Converting Carbon Dioxide to Methane. <i>Advanced Materials</i> , 2022, 34, e2105690.	21.0	59
3	Carbon Nanotubes-Based Electrocatalysts: Structural Regulation, Support Effect, and Synchrotron-Based Characterization. <i>Advanced Functional Materials</i> , 2022, 32, 2106684.	14.9	14
4	An experimental and theoretical investigation on structure-property correlation of Cu ₂ Mn ₁ Al _{1-x} Gax full-Heusler alloy. <i>Journal of Alloys and Compounds</i> , 2022, 898, 162865.	5.5	2
5	Stability of oxygenated groups on pristine and defective diamond surfaces. <i>MRS Advances</i> , 2022, 7, 543-546.	0.9	1
6	Exfoliation of black phosphorus in isopropanol-water cosolvents. <i>Journal of Molecular Structure</i> , 2022, 1260, 132862.	3.6	2
7	Substitution of copper atoms into defect-rich molybdenum sulfides and their electrocatalytic activity. <i>Nanoscale Advances</i> , 2021, 3, 1747-1757.	4.6	3
8	Oxygenation of Diamond Surfaces via Hummer's Method. <i>Chemistry of Materials</i> , 2021, 33, 4977-4987.	6.7	4
9	Damage-tolerant 3D-printed ceramics via conformal coating. <i>Science Advances</i> , 2021, 7, .	10.3	32
10	Luminescent hybrid biocomposite films derived from animal skin waste. <i>Carbon Trends</i> , 2021, 4, 100059.	3.0	5
11	Designing a sustainable fluorescent targeting probe for superselective nucleus imaging. <i>Carbon</i> , 2021, 180, 48-55.	10.3	31
12	Three-dimensional printing of complex graphite structures. <i>Carbon</i> , 2021, 181, 260-269.	10.3	10
13	Apparent Ferromagnetism in Exfoliated Ultrathin Pyrite Sheets. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18927-18935.	3.1	30
14	Structure, Properties and Applications of Two-Dimensional Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2021, 33, e2101589.	21.0	239
15	Magnetite-Functionalized Plumbagin for Therapeutic Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1361-1372.	6.7	4
16	Gas-Phase Fluorination of Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2021, 33, e2106084.	21.0	10
17	Cu-Pd Bimetal and CuPt Alloy Nanotubes Derived From Cu Nanowires: Novel Amplification Media for Surface-Enhanced Raman Spectroscopy. <i>IEEE Sensors Journal</i> , 2020, 20, 143-148.	4.7	3
18	Facile synthesis of highly fluorescent free-standing films comprising graphitic carbon nitride (g-C ₃ N ₄) nanolayers. <i>New Journal of Chemistry</i> , 2020, 44, 2644-2651.	2.8	29

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19	Complementary behaviour of EDL and HER activity in functionalized graphene nanoplatelets. <i>Nanoscale</i> , 2020, 12, 1790-1800.	5.6	10
20	Facile construction of a hybrid artificial protective layer for stable lithium metal anode. <i>Chemical Engineering Journal</i> , 2020, 391, 123542.	12.7	25
21	A universal strategy to separate hydrophilic hybrid-light carbon quantum dots using pure water as eluent. <i>Applied Materials Today</i> , 2020, 18, 100528.	4.3	10
22	Stable lithium metal anode enabled by an artificial multi-phase composite protective film. <i>Journal of Power Sources</i> , 2020, 448, 227547.	7.8	30
23	Full-color fluorescent carbon quantum dots. <i>Science Advances</i> , 2020, 6, .	10.3	344
24	Scale-Enhanced Magnetism in Exfoliated Atomically Thin Magnetite Sheets. <i>Small</i> , 2020, 16, e2004208.	10.0	15
25	Sustainable Synthesis of N-Doped Hollow Porous Carbon Spheres via a Spray-Drying Method for Lithium-Sulfur Storage with Ultralong Cycle Life. <i>Batteries and Supercaps</i> , 2020, 3, 1201-1208.	4.7	25
26	Rational Design of Ni-Based Electrocatalysts by Modulation of Iron Ions and Carbon Nanotubes for Enhanced Oxygen Evolution Reaction. <i>Advanced Sustainable Systems</i> , 2020, 4, 2000227.	5.3	4
27	Multifunctional Bio-Nanocomposite Coatings for Perishable Fruits. <i>Advanced Materials</i> , 2020, 32, e1908291.	21.0	97
28	Improving the Catalytic Activity of Carbon-Supported Single Atom Catalysts by Polynary Metal or Heteroatom Doping. <i>Small</i> , 2020, 16, e1906782.	10.0	124
29	Shear exfoliation synthesis of large-scale graphene-reinforced nanofibers. <i>Carbon</i> , 2020, 166, 405-413.	10.3	9
30	Extraction of Two-Dimensional Aluminum Alloys from Decagonal Quasicrystals. <i>ACS Nano</i> , 2020, 14, 7435-7443.	14.6	19
31	Formation of multifunctional ZrO ₂ -MgO-hBN nanocomposite for enhanced bone regeneration and E coli bacteria filtration applications. <i>Ceramics International</i> , 2020, 46, 23006-23020.	4.8	10
32	Revealing the effect of phosphorus doping on Co@carbon in boosting oxygen evolution catalytic activity. <i>Journal of Alloys and Compounds</i> , 2020, 843, 156001.	5.5	8
33	White luminescent single-crystalline chlorinated graphene quantum dots. <i>Nanoscale Horizons</i> , 2020, 5, 928-933.	8.0	47
34	Bio-Nanocomposite Coatings: Multifunctional Bio-Nanocomposite Coatings for Perishable Fruits (Adv.) <i>Tj ETQq0,0,0 rgtBT₃Overlock</i>	21.0	3
35	Microcomputed tomography-based characterization of advanced materials: a review. <i>Materials Today Advances</i> , 2020, 8, 100084.	5.2	64
36	A solvent-assisted ligand exchange approach enables metal-organic frameworks with diverse and complex architectures. <i>Nature Communications</i> , 2020, 11, 927.	12.8	93

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37	Influence of channel thickness on charge transport behavior of multi-layer indium selenide (InSe) field-effect transistors. <i>2D Materials</i> , 2020, 7, 025030.	4.4	7
38	Ultra-low density three-dimensional nano-silicon carbide architecture with high temperature resistance and mechanical strength. <i>Carbon</i> , 2020, 164, 143-149.	10.3	3
39	Nature inspired solid-liquid phase amphibious adhesive. <i>Soft Matter</i> , 2020, 16, 5854-5860.	2.7	3
40	Flexible planar supercapacitors by straightforward filtration and laser processing steps. <i>Nanotechnology</i> , 2020, 31, 495403.	2.6	4
41	Reflux pretreatment-mediated sonication: A new universal route to obtain 2D quantum dots. <i>Materials Today</i> , 2019, 22, 17-24.	14.2	12
42	Sustainable Synthesis of Bright Green Fluorescent Nitrogen-Doped Carbon Quantum Dots from Alkali Lignin. <i>ChemSusChem</i> , 2019, 12, 4202-4210.	6.8	92
43	Asphaltene-Derived Metal-Free Carbons for Electrocatalytic Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27697-27705.	8.0	9
44	Recyclable three-dimensional Ag nanorod arrays decorated with O-g-C ₃ N ₄ for highly sensitive SERS sensing of organic pollutants. <i>Journal of Hazardous Materials</i> , 2019, 379, 120823.	12.4	47
45	Carbon nanotube micropillars trigger guided growth of complex human neural stem cells networks. <i>Nano Research</i> , 2019, 12, 2894-2899.	10.4	27
46	Atomic Ru Immobilized on Porous h-BN through Simple Vacuum Filtration for Highly Active and Selective CO ₂ Methanation. <i>ACS Catalysis</i> , 2019, 9, 10077-10086.	11.2	93
47	Tuning the Electrocatalytic Activity of Co ₃ O ₄ through Discrete Elemental Doping. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39706-39714.	8.0	21
48	Strain-controlled optical transmittance tuning of three-dimensional carbon nanotube architectures. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1927-1933.	5.5	3
49	Gate-Induced Metal-Insulator Transition in 2D van der Waals Layers of Copper Indium Selenide Based Field-Effect Transistors. <i>ACS Nano</i> , 2019, 13, 13413-13420.	14.6	20
50	Metal Nanoparticles as Green Catalysts. <i>Materials</i> , 2019, 12, 3602.	2.9	109
51	Interfacial States and Fano-Feshbach Resonance in Graphene-Silicon Vertical Junction. <i>Nano Letters</i> , 2019, 19, 6765-6771.	9.1	2
52	Etching of transition metal dichalcogenide monolayers into nanoribbon arrays. <i>Nanoscale Horizons</i> , 2019, 4, 689-696.	8.0	11
53	Doping Nanoscale Graphene Domains Improves Magnetism in Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2019, 31, e1805778.	21.0	69
54	Elastic and transparent bone™ as an electrochemical separator. <i>Materials Today Chemistry</i> , 2019, 12, 132-138.	3.5	6

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55	<i>Boxception</i>: Impact Resistance Structure Using 3D Printing. Advanced Engineering Materials, 2019, 21, 1900167.	3.5	12
56	Electric Double Layer Field-Effect Transistors Using Two-Dimensional (2D) Layers of Copper Indium Selenide (CuIn ₇ Se ₁₁). Electronics (Switzerland), 2019, 8, 645.	3.1	10
57	High-Lithium Affinity Chemically Exfoliated 2D Covalent Organic Frameworks. Advanced Materials, 2019, 31, e1901640.	21.0	217
58	Fiber Reinforced Layered Dielectric Nanocomposite. Advanced Functional Materials, 2019, 29, 1900056.	14.9	64
59	Low Contact Barrier in 2H/1T MoTe ₂ In-Plane Heterostructure Synthesized by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2019, 11, 12777-12785.	8.0	70
60	Rational Design of Oxygen-Enriched Carbon Dots with Efficient Room-Temperature Phosphorescent Properties and High-Tech Security Protection Application. ACS Sustainable Chemistry and Engineering, 2019, 7, 19918-19924.	6.7	47
61	Atomically thin gallium layers from solid-melt exfoliation. Science Advances, 2018, 4, e1701373.	10.3	157
62	Liquid Exfoliation of Icosahedral Quasicrystals. Advanced Functional Materials, 2018, 28, 1801181.	14.9	21
63	Nitrogen-rich carbon nano-onions for oxygen reduction reaction. Carbon, 2018, 130, 645-651.	10.3	90
64	Mechanical Properties of Ultralow Density Graphene Oxide/Polydimethylsiloxane Foams. MRS Advances, 2018, 3, 61-66.	0.9	2
65	Carbon nanotube conditioning part 1—effect of interwall interaction on the electronic band gap of double-walled carbon nanotubes. Nanotechnology, 2018, 29, 045701.	2.6	3
66	A fast and zero-biased photodetector based on GaTe/InSe vertical 2D p-n heterojunction. 2D Materials, 2018, 5, 025008.	4.4	81
67	High stiffness polymer composite with tunable transparency. Materials Today, 2018, 21, 475-482.	14.2	27
68	Origami-Inspired 3D Interconnected Molybdenum Carbide Nanoflakes. Advanced Materials Interfaces, 2018, 5, 1701113.	3.7	13
69	A Study of Vertical Transport through Graphene toward Control of Quantum Tunneling. Nano Letters, 2018, 18, 682-688.	9.1	13
70	High efficiency electrochemical reduction of CO ₂ beyond the two-electron transfer pathway on grain boundary rich ultra-small SnO ₂ nanoparticles. Journal of Materials Chemistry A, 2018, 6, 10313-10319.	10.3	92
71	MOF-74 derived porous hybrid metal oxide hollow nanowires for high-performance electrochemical energy storage. Journal of Materials Chemistry A, 2018, 6, 8396-8404.	10.3	101
72	Consolidation of functionalized graphene at ambient temperature via mechano-chemistry. Carbon, 2018, 134, 491-499.	10.3	22

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73	Fast photoresponse and high detectivity in copper indium selenide (CuIn ₇ Se ₁₁) phototransistors. 2D Materials, 2018, 5, 015001.	4.4	24
74	Atomic Layered Titanium Sulfide Quantum Dots as Electrocatalysts for Enhanced Hydrogen Evolution Reaction. Advanced Materials Interfaces, 2018, 5, 1700895.	3.7	30
75	Graphene Oxide Epoxy (GO-EP): GO as Epoxy Adhesive by Interfacial Reaction of Functionalities. Advanced Materials Interfaces, 2018, 5, 1700657.	3.7	19
76	Multiscale Geometric Design Principles Applied to 3D Printed Schwarzites. Advanced Materials, 2018, 30, 1704820.	21.0	76
77	2D heterostructure comprised of metallic 1T-MoS ₂ /Monolayer O-g-C ₃ N ₄ towards efficient photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2018, 220, 379-385.	20.2	231
78	Temperature and Substrate Dependent Conductivities of CVD Graphene measured by Terahertz Time-Domain Spectroscopy. , 2018, , .		0
79	Near-Field Coupled Integrable Two-Dimensional InSe Photosensor on Optical Fiber. ACS Nano, 2018, 12, 12571-12577.	14.6	19
80	Quaternary Alloys: Thermally Induced 2D Alloy-Induced Heterostructure Transformation in Quaternary Alloys (Adv. Mater. 45(2018)). Advanced Materials, 2018, 30, 1870344.	21.0	2
81	Soft-Lithographic Patterning of Luminescent Carbon Nanodots Derived from Collagen Waste. ACS Applied Materials & Interfaces, 2018, 10, 36275-36283.	8.0	24
82	Magnetic Properties and Photocatalytic Applications of 2D Sheets of Nonlayered Manganese Telluride by Liquid Exfoliation. ACS Applied Nano Materials, 2018, 1, 6427-6434.	5.0	33
83	Interconnecting Bone Nanoparticles by Ovalbumin Molecules to Build a Three-Dimensional Low-Density and Tough Material. ACS Applied Materials & Interfaces, 2018, 10, 41757-41762.	8.0	9
84	Thermally Induced 2D Alloy-Induced Heterostructure Transformation in Quaternary Alloys. Advanced Materials, 2018, 30, e1804218.	21.0	29
85	Maskless direct growth of carbon nanotube micropatterns on metallic substrates. Carbon, 2018, 140, 610-615.	10.3	4
86	A Scalable Approach to Dendrite-Free Lithium Anodes via Spontaneous Reduction of Spray-Coated Graphene Oxide Layers. Advanced Materials, 2018, 30, e1801213.	21.0	204
87	Effects of etchants in the transfer of chemical vapor deposited graphene. Journal of Applied Physics, 2018, 123, .	2.5	19
88	MoS ₂ -Carbon Nanotube Porous 3D Network for Enhanced Oxygen Reduction Reaction. ChemSusChem, 2018, 11, 2960-2966.	6.8	46
89	One Step Process for Infiltration of Magnetic Nanoparticles into CNT Arrays for Enhanced Field Emission. Advanced Materials Interfaces, 2018, 5, 1701631.	3.7	2
90	Chromiteen: A New 2D Oxide Magnetic Material from Natural Ore. Advanced Materials Interfaces, 2018, 5, 1800549.	3.7	36

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91	Exfoliation of a non-van der Waals material from iron ore hematite. <i>Nature Nanotechnology</i> , 2018, 13, 602-609.	31.5	295
92	A Non-van der Waals Two-Dimensional Material from Natural Titanium Mineral Ore Ilmenite. <i>Chemistry of Materials</i> , 2018, 30, 5923-5931.	6.7	82
93	Underwater adhesive using solid-liquid polymer mixes. <i>Materials Today Chemistry</i> , 2018, 9, 149-157.	3.5	25
94	Achieving Self-Stiffening and Laser Healing by Interconnecting Graphene Oxide Sheets with Amine-Functionalized Ovalbumin. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800932.	3.7	5
95	Poly-albumen: Bio-derived structural polymer from polymerized egg white. <i>Materials Today Chemistry</i> , 2018, 9, 73-79.	3.5	7
96	Synthesis and 3D Interconnected Nanostructured h-BN-Based Biocomposites by Low-Temperature Plasma Sintering: Bone Regeneration Applications. <i>ACS Omega</i> , 2018, 3, 6013-6021.	3.5	24
97	High photoresponse of individual WS ₂ nanowire-nanoflake hybrid materials. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	7
98	Growth of Molybdenum Carbide-Graphene Hybrids from Molybdenum Disulfide Atomic Layer Template. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600866.	3.7	14
99	Facile Synthesis of 3D Anode Assembly with Si Nanoparticles Sealed in Highly Pure Few Layer Graphene Deposited on Porous Current Collector for Long Life Li-Ion Battery. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601043.	3.7	65
100	High Toughness in Ultralow Density Graphene Oxide Foam. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700030.	3.7	20
101	Reversible Formation of Fe ₃ N ₄ 3D Hydrogels through Ionic Liquid Activation: Gelation Behavior and Room-Temperature Gas Sensing Properties. <i>Advanced Functional Materials</i> , 2017, 27, 1700653.	14.9	90
102	Direct growth of MoS ₂ single crystals on polyimide substrates. <i>2D Materials</i> , 2017, 4, 021028.	4.4	39
103	High Efficiency Photocatalytic Water Splitting Using 2D Fe ₂ O ₃ /g-C ₃ N ₄ Z-scheme Catalysts. <i>Advanced Energy Materials</i> , 2017, 7, 1700025.	19.5	664
104	Magnetic field controlled graphene oxide-based origami with enhanced surface area and mechanical properties. <i>Nanoscale</i> , 2017, 9, 6991-6997.	5.6	36
105	Correlation between types of defects/vacancies of Bi ₂ S ₃ nanostructures and their transient photocurrent. <i>Nano Research</i> , 2017, 10, 2405-2414.	10.4	8
106	Structural Reinforcement through Liquid Encapsulation. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600781.	3.7	8
107	High Strain Tolerant EMI Shielding Using Carbon Nanotube Network Stabilized Rubber Composite. <i>Advanced Materials Technologies</i> , 2017, 2, 1700078.	5.8	153
108	Metal Immiscibility Route to Synthesis of Ultrathin Carbides, Borides, and Nitrides. <i>Advanced Materials</i> , 2017, 29, 1700364.	21.0	61

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109	Hydrogels: Reversible Formation of N_3 3D Hydrogels through Ionic Liquid Activation: Gelation Behavior and Room-Temperature Gas Sensing Properties (Adv. Funct. Mater.)	10.7	114
110	Chemically interconnected light-weight 3D-carbon nanotube solid network. Carbon, 2017, 119, 142-149.	10.3	20
111	Synthesis of large-scale atomic-layer SnS ₂ through chemical vapor deposition. Nano Research, 2017, 10, 2386-2394.	10.4	124
112	Velcro-Inspired SiC Fuzzy Fibers for Aerospace Applications. ACS Applied Materials & Interfaces, 2017, 9, 13742-13750.	8.0	24
113	Self-Stiffening Behavior of Reinforced Carbon Nanotubes Spheres. Advanced Engineering Materials, 2017, 19, 1600756.	3.5	8
114	A novel electroluminescent device based on a reduced graphene oxide wrapped phosphor (ZnS:Cu,Al) and hexagonal-boron nitride for high-performance luminescence. Nanoscale, 2017, 9, 5002-5008.	5.6	17
115	Enhancing Mechanical Properties of Nanocomposites Using Interconnected Carbon Nanotubes (CNT) as Reinforcement. Advanced Engineering Materials, 2017, 19, 1600499.	3.5	7
116	2D Heterostructure coatings of h-BN-MoS ₂ layers for corrosion resistance. Journal Physics D: Applied Physics, 2017, 50, 045301.	2.8	19
117	Giant Terahertz-Wave Absorption by Monolayer Graphene in a Total Internal Reflection Geometry. ACS Photonics, 2017, 4, 121-126.	6.6	52
118	Role of Atomic Layer Functionalization in Building Scalable Bottom-Up Assembly of Ultra-Low Density Multifunctional Three-Dimensional Nanostructures. ACS Nano, 2017, 11, 806-813.	14.6	14
119	Phase Segregation Behavior of Two-Dimensional Transition Metal Dichalcogenide Binary Alloys Induced by Dissimilar Substitution. Chemistry of Materials, 2017, 29, 7431-7439.	6.7	27
120	Acetonitrile mediated facile synthesis and self-assembly of silver vanadate nanowires into 3D spongy-like structure as a cathode material for lithium ion battery. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	9
121	Photoemission Electron Microscopy as a New Tool to Study the Electronic Properties of 2D Crystals and Inhomogeneous Semiconductors. Microscopy and Microanalysis, 2017, 23, 1504-1505.	0.4	0
122	2D Materials: Quaternary 2D Transition Metal Dichalcogenides (TMDs) with Tunable Bandgap (Adv.)	21.0	1
123	Superior Potassium Ion Storage via Vertical MoS ₂ Nano-Rose with Expanded Interlayers on Graphene. Small, 2017, 13, 1701471.	10.0	221
124	Negative Differential Conductance & Hot-Carrier Avalanching in Monolayer WS ₂ FETs. Scientific Reports, 2017, 7, 11256.	3.3	18
125	Bacteria as Bio-Template for 3D Carbon Nanotube Architectures. Scientific Reports, 2017, 7, 9855.	3.3	21
126	Experimental Determination of the Ionization Energies of MoSe ₂ , WS ₂ , and MoS ₂ on SiO ₂ Using Photoemission Electron Microscopy. ACS Nano, 2017, 11, 8223-8230.	14.6	69

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127	Gold Nanoparticles and C_3N_4 -Intercalated Graphene Oxide Membrane for Recyclable Surface Enhanced Raman Scattering. <i>Advanced Functional Materials</i> , 2017, 27, 1701714.	14.9	129
128	Nature Inspired Strategy to Enhance Mechanical Properties via Liquid Reinforcement. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700240.	3.7	30
129	Quaternary 2D Transition Metal Dichalcogenides (TMDs) with Tunable Bandgap. <i>Advanced Materials</i> , 2017, 29, 1702457.	21.0	186
130	Self-optimizing, highly surface-active layered metal dichalcogenide catalysts for hydrogen evolution. <i>Nature Energy</i> , 2017, 2, .	39.5	336
131	Lightweight Hexagonal Boron Nitride Foam for CO_2 Absorption. <i>ACS Nano</i> , 2017, 11, 8944-8952.	14.6	56
132	Adsorption energy of oxygen molecules on graphene and two-dimensional tungsten disulfide. <i>Scientific Reports</i> , 2017, 7, 1774.	3.3	62
133	Effect of Fe substitution by Co on off-stoichiometric $NiFeCoMnSn$ Heusler alloy ribbons. <i>Materials Research Express</i> , 2017, 4, 086507.	1.6	5
134	Cryo-mediated exfoliation and fracturing of layered materials into 2D quantum dots. <i>Science Advances</i> , 2017, 3, e1701500.	10.3	91
135	Energy Storage: Superior Potassium Ion Storage via Vertical MoS_2 Nano-Rose with Expanded Interlayers on Graphene (<i>Small</i> 42/2017). <i>Small</i> , 2017, 13, .	10.0	2
136	Layer dependence of the electronic band alignment of few-layer MoS_2 on SiO_2/Si . <i>ACS Nano</i> , 2017, 11, 10000-10006.	3.2	35
137	Characterization of tin(II) sulfide defects/vacancies and correlation with their photocurrent. <i>Nano Research</i> , 2017, 10, 218-228.	10.4	8
138	Imaging the motion of electrons across semiconductor heterojunctions. <i>Nature Nanotechnology</i> , 2017, 12, 36-40.	31.5	124
139	On-chip integrated vertically aligned carbon nanotube based super- and pseudocapacitors. <i>Scientific Reports</i> , 2017, 7, 16594.	3.3	30
140	Structural and Magnetic Properties of Rapidly Solidified $Ni_{45}Fe_5Mn_{40}Sn_{10}$ Alloy Ribbon. <i>Journal of Advanced Physics</i> , 2017, 6, 389-396.	0.4	3
141	Imaging electron motion in 2D semiconductor heterojunctions. , 2017, , .		0
142	Synthesis of Millimeter-Scale Transition Metal Dichalcogenides Single Crystals. <i>Advanced Functional Materials</i> , 2016, 26, 2009-2015.	14.9	152
143	Surface Tension Components Based Selection of Cosolvents for Efficient Liquid Phase Exfoliation of 2D Materials. <i>Small</i> , 2016, 12, 2741-2749.	10.0	128
144	Zirconia based dental ceramics: structure, mechanical properties, biocompatibility and applications. <i>Dalton Transactions</i> , 2016, 45, 19194-19215.	3.3	228

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145	Temperature programmed desorption measurements of oxygen molecules in 2D materials using laser terahertz emission microscopy. , 2016, , .		0
146	A metal-free electrocatalyst for carbon dioxide reduction to multi-carbon hydrocarbons and oxygenates. Nature Communications, 2016, 7, 13869.	12.8	505
147	Parallel plate waveguide terahertz time domain spectroscopy for 2D materials. , 2016, , .		0
148	Reduced graphene oxide and gel polymer based thin film supercapacitor. , 2016, , .		0
149	Parallel plate waveguide time domain spectroscopy to study terahertz conductivity of ultrathin materials. Proceedings of SPIE, 2016, , .	0.8	1
150	Wafer-scale monodomain films of spontaneously aligned single-walled carbon nanotubes. Nature Nanotechnology, 2016, 11, 633-638.	31.5	292
151	A generic approach for mechano-chemical reactions between carbonnanotubes of different functionalities. Carbon, 2016, 104, 196-202.	10.3	15
152	Probing low-density carriers in a single atomic layer using terahertz parallel-plate waveguides. Optics Express, 2016, 24, 3885.	3.4	7
153	Highly ordered carbon-based nanospheres with high stiffness. Carbon, 2016, 105, 144-150.	10.3	8
154	Strain-Induced Electronic Structure Changes in Stacked van der Waals Heterostructures. Nano Letters, 2016, 16, 3314-3320.	9.1	122
155	The structural and dynamical aspects of boron nitride nanotubes under high velocity impacts. Physical Chemistry Chemical Physics, 2016, 18, 14776-14781.	2.8	15
156	Mechano-chemical stabilization of three-dimensional carbon nanotube aggregates. Carbon, 2016, 110, 27-33.	10.3	22
157	Synthesis and porous h-BN 3D architectures for effective humidity and gas sensors. RSC Advances, 2016, 6, 87888-87896.	3.6	43
158	Thermally Assisted Nonvolatile Memory in Monolayer MoS ₂ Transistors. Nano Letters, 2016, 16, 6445-6451.	9.1	47
159	Nanoscale-Barrier Formation Induced by Low-Dose Electron-Beam Exposure in Ultrathin MoS ₂ Transistors. ACS Nano, 2016, 10, 9730-9737.	14.6	26
160	Solidâ€“Vapor Reaction Growth of Transitionâ€“Metal Dichalcogenide Monolayers. Angewandte Chemie - International Edition, 2016, 55, 10656-10661.	13.8	27
161	Solidâ€“Vapor Reaction Growth of Transitionâ€“Metal Dichalcogenide Monolayers. Angewandte Chemie, 2016, 128, 10814-10819.	2.0	17
162	Synthesis of ultralow density 3D grapheneâ€“CNT foams using a two-step method. Nanoscale, 2016, 8, 15857-15863.	5.6	43

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163	Spiral Growth of SnSe ₂ Crystals by Chemical Vapor Deposition. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600383.	3.7	55
164	Ballistic Fracturing of Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24819-24825.	8.0	16
165	Effect of Oxygen Adsorbates on Terahertz Emission Properties of Various Semiconductor Surfaces Covered with Graphene. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2016, 37, 1117-1123.	2.2	10
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