

Boris I Yakobson

List of Publications by Year in descending order

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396
papers

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citations

1231

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215
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415
all docs

415
docs citations

415
times ranked

38099
citing authors

#	ARTICLE	IF	CITATIONS
1	Borophene synthesis beyond the single-atomic-layer limit. <i>Nature Materials</i> , 2022, 21, 35-40.	13.3	137
2	Two-Dimensional Nanomaterials for the Development of Efficient Gas Sensors: Recent Advances, Challenges, and Future Perspectives. <i>Advanced Materials Technologies</i> , 2022, 7, 2101252.	3.0	20
3	Phase controlled synthesis of transition metal carbide nanocrystals by ultrafast flash Joule heating. <i>Nature Communications</i> , 2022, 13, 262.	5.8	52
4	Stability and electronic properties of gallene. <i>Nanoscale Advances</i> , 2022, 4, 1408-1413.	2.2	6
5	Polycrystalline morphology and mechanical strength of nanotube fibers. <i>Npj Computational Materials</i> , 2022, 8, .	3.5	0
6	Borophane Polymorphs. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1107-1113.	2.1	12
7	Iron corrosion in the "inert" supercritical CO ₂ , ab initio dynamics insights: How impurities matter. <i>Matter</i> , 2022, 5, 751-762.	5.0	8
8	Electron Optics and Valley Hall Effect of Undulated Graphene. <i>Nano Letters</i> , 2022, 22, 2934-2940.	4.5	8
9	Probing borophene oxidation at the atomic scale. <i>Nanotechnology</i> , 2022, 33, 235702.	1.3	7
10	Atomic Molybdenum for Synthesis of Ammonia with 50% Faradic Efficiency. <i>Small</i> , 2022, 18, e2106327.	5.2	20
11	Salt-Assisted MoS ₂ Growth: Molecular Mechanisms from the First Principles. <i>Journal of the American Chemical Society</i> , 2022, 144, 7497-7503.	6.6	30
12	Designing 1D correlated-electron states by non-Euclidean topography of 2D monolayers. <i>Nature Communications</i> , 2022, 13, .	5.8	9
13	Piezo-response in two-dimensional \pm -Tellurene films. <i>Materials Today</i> , 2021, 44, 40-47.	8.3	9
14	Zwitterionic ultrathin covalent organic polymers for high-performance electrocatalytic carbon dioxide reduction. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119750.	10.8	35
15	Semiconducting \pm -boron sheet with high mobility and low all-boron contact resistance: a first-principles study. <i>Nanoscale</i> , 2021, 13, 8474-8480.	2.8	15
16	Energetics of graphene origami and their "spatial resolution". <i>MRS Bulletin</i> , 2021, 46, 481-486.	1.7	3
17	Dual Role of Adsorbent and Non-monotonic Transfer p-Doping of Diamond. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4676-4681.	4.0	2
18	Millisecond Conversion of Metastable 2D Materials by Flash Joule Heating. <i>ACS Nano</i> , 2021, 15, 1282-1290.	7.3	48

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19	Substitution of copper atoms into defect-rich molybdenum sulfides and their electrocatalytic activity. <i>Nanoscale Advances</i> , 2021, 3, 1747-1757.	2.2	3
20	Kinetically Determined Shapes of Grain Boundaries in Graphene. <i>ACS Nano</i> , 2021, 15, 4893-4900.	7.3	11
21	Hydrogen Peroxide Generation with 100% Faradaic Efficiency on Metal-Free Carbon Black. <i>ACS Catalysis</i> , 2021, 11, 2454-2459.	5.5	98
22	What Dictates Rashba Splitting in 2D van der Waals Heterobilayers. <i>Journal of the American Chemical Society</i> , 2021, 143, 3503-3508.	6.6	21
23	Electronic and Magnetic Diversity of Graphene/Graphene Superlattices. <i>Chemistry of Materials</i> , 2021, 33, 2090-2098.	3.2	5
24	Computational Modeling of 2D Materials under High Pressure and Their Chemical Bonding: Silicene as Possible Field-Effect Transistor. <i>ACS Nano</i> , 2021, 15, 6861-6871.	7.3	18
25	Theoretical Prediction of Two-Dimensional Materials, Behavior, and Properties. <i>ACS Nano</i> , 2021, 15, 5959-5976.	7.3	30
26	Dimensionality-Reduced Fermi Level Pinning in Coplanar 2D Heterojunctions. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4299-4305.	2.1	10
27	Short Term Safety, Immunogenicity, and Reproductive Effects of Combined Vaccination With Anti-GnRH (Gonacon) and Rabies Vaccines in Female Feral Cats. <i>Frontiers in Veterinary Science</i> , 2021, 8, 650291.	0.9	4
28	Bandgap engineering of two-dimensional C ₃ N bilayers. <i>Nature Electronics</i> , 2021, 4, 486-494.	13.1	36
29	Gas-Phase "Prehistory" and Molecular Precursors in Monolayer Metal Dichalcogenides Synthesis: The Case of MoS ₂ . <i>ACS Nano</i> , 2021, 15, 10525-10531.	7.3	9
30	Two-Dimensional Diamond "Diamane": Current State and Further Prospects. <i>Nano Letters</i> , 2021, 21, 5475-5484.	4.5	64
31	Dimensionality-Inhibited Chemical Doping in Two-Dimensional Semiconductors: The Phosphorene and MoS ₂ from Charge-Correction Method. <i>Nano Letters</i> , 2021, 21, 6711-6717.	4.5	14
32	Stable Low-Dimensional Boron Chalcogenides from Planar Structural Motifs. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6059-6063.	1.1	2
33	Tuning Metal Elements in Open Frameworks for Efficient Oxygen Evolution and Oxygen Reduction Reaction Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42715-42723.	4.0	17
34	Stress-dominated growth of two-dimensional materials on nonplanar substrates. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 157, 104645.	2.3	4
35	Building a stable cationic molecule/electrode interface for highly efficient and durable CO ₂ reduction at an industrially relevant current. <i>Energy and Environmental Science</i> , 2021, 14, 483-492.	15.6	101
36	Nanoscale Probing of Image-Potential States and Electron Transfer Doping in Borophene Polymorphs. <i>Nano Letters</i> , 2021, 21, 1169-1174.	4.5	20

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37	Heterobilayer with Ferroelectric Switching of Topological State. Nano Letters, 2021, 21, 785-790.	4.5	38
38	Universal Strength Scaling in Carbon Nanotube Bundles with Frictional Load Transfer. ACS Nano, 2021, 15, 1342-1350.	7.3	26
39	Atomic Layers of Graphene for Microbial Corrosion Prevention. ACS Nano, 2021, 15, 447-454.	7.3	20
40	Borophenes: Insights and Predictions From Computational Analyses. , 2021, , 27-49.		1
41	Step-Edge Epitaxy for Borophene Growth on Insulators. ACS Nano, 2021, 15, 18347-18353.	7.3	19
42	Fatigue in assemblies of indefatigable carbon nanotubes. Science Advances, 2021, 7, eabj6996.	4.7	7
43	Nickel particle-enabled width-controlled growth of bilayer molybdenum disulfide nanoribbons. Science Advances, 2021, 7, eabk1892.	4.7	19
44	Complementary behaviour of EDL and HER activity in functionalized graphene nanoplatelets. Nanoscale, 2020, 12, 1790-1800.	2.8	10
45	Engineering grain boundaries at the 2D limit for the hydrogen evolution reaction. Nature Communications, 2020, 11, 57.	5.8	153
46	Scale-Enhanced Magnetism in Exfoliated Atomically Thin Magnetite Sheets. Small, 2020, 16, e2004208.	5.2	15
47	Graphene-Diamond Transformation: Nano-Thermodynamics of Chemically Induced Graphene-Diamond Transformation (Small 47/2020). Small, 2020, 16, 2070256.	5.2	2
48	Dimensionality effects in crystal plasticity, from 3D silicon to 2D silicene. Extreme Mechanics Letters, 2020, 40, 100892.	2.0	1
49	Hexagonal Boron Nitride for Sulfur Corrosion Inhibition. ACS Nano, 2020, 14, 14809-14819.	7.3	56
50	Nano-Thermodynamics of Chemically Induced Graphene-Diamond Transformation. Small, 2020, 16, e2004782.	5.2	26
51	CO ₂ to Formic Acid Using Cu-Sn on Laser-Induced Graphene. ACS Applied Materials & Interfaces, 2020, 12, 41223-41229.	4.0	48
52	Flash Graphene Morphologies. ACS Nano, 2020, 14, 13691-13699.	7.3	78
53	Zeolite Nanosheets Stabilize Catalyst Particles to Promote the Growth of Thermodynamically Unfavorable, Small-Diameter Carbon Nanotubes. Small, 2020, 16, e2002120.	5.2	7
54	Hexagonal layered group IV-VI semiconductors and derivatives: fresh blood of the 2D family. Nanoscale, 2020, 12, 13450-13459.	2.8	20

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55	Heterobilayers of 2D materials as a platform for excitonic superfluidity. Nature Communications, 2020, 11, 2989.	5.8	31
56	Seasonal variation in bait uptake and seropositivity during a multi-year biannual oral rabies fox vaccination programme in Kosovo (2010â€“2015). Preventive Veterinary Medicine, 2020, 181, 105050.	0.7	0
57	Flexoelectricity and Charge Separation in Carbon Nanotubes. Nano Letters, 2020, 20, 3240-3246.	4.5	32
58	Excitons and Electronâ€“Hole Liquid State in 2D Γ -Phase Group-IV Monochalcogenides. Advanced Functional Materials, 2020, 30, 2000533.	7.8	39
59	Wafer-scale single-crystal hexagonal boron nitride monolayers on Cu(111). Nature, 2020, 579, 219-223.	13.7	409
60	Structure and Dynamics of the Electronic Heterointerfaces in MoS_2 by First-Principles Simulations. Journal of Physical Chemistry Letters, 2020, 11, 1644-1649.	2.1	9
61	Borophene Concentric Superlattices via Self-Assembly of Twin Boundaries. Nano Letters, 2020, 20, 1315-1321.	4.5	36
62	Gram-scale bottom-up flash graphene synthesis. Nature, 2020, 577, 647-651.	13.7	438
63	Nested hybrid nanotubes. Science, 2020, 367, 506-507.	6.0	22
64	Further Evidence of Inadequate Quality in Lateral Flow Devices Commercially Offered for the Diagnosis of Rabies. Tropical Medicine and Infectious Disease, 2020, 5, 13.	0.9	17
65	Surfactant-Mediated Growth and Patterning of Atomically Thin Transition Metal Dichalcogenides. ACS Nano, 2020, 14, 6570-6581.	7.3	30
66	Janus Segregation at the Carbon Nanotubeâ€“Catalyst Interface. ACS Nano, 2019, 13, 8836-8841.	7.3	25
67	Self-gating in semiconductor electrocatalysis. Nature Materials, 2019, 18, 1098-1104.	13.3	167
68	Atomic Ru Immobilized on Porous h-BN through Simple Vacuum Filtration for Highly Active and Selective CO_2 Methanation. ACS Catalysis, 2019, 9, 10077-10086.	5.5	93
69	Room-Temperature Ferroelectricity in Group-IV Metal Chalcogenide Nanowires. Journal of the American Chemical Society, 2019, 141, 15040-15045.	6.6	44
70	Near-equilibrium growth from borophene edges on silver. Science Advances, 2019, 5, eaax0246.	4.7	47
71	Modulating Blue Phosphorene by Synergetic Codoping: Indirect to Direct Gap Transition and Strong Bandgap Bowing. Advanced Functional Materials, 2019, 29, 1808721.	7.8	6
72	Strain tolerance of two-dimensional crystal growth on curved surfaces. Science Advances, 2019, 5, eaav4028.	4.7	46

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73	Electronic Doping Controlled Migration of Dislocations in Polycrystalline 2D WS ₂ . Small, 2019, 15, e1805145.	5.2	4
74	Structure-Dependent Electrical and Magnetic Properties of Iron Oxide Composites. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1801004.	0.8	3
75	Borophene Synthesis on Au(111). ACS Nano, 2019, 13, 3816-3822.	7.3	261
76	Low Contact Barrier in 2H/1T MoTe ₂ In-Plane Heterostructure Synthesized by Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2019, 11, 12777-12785.	4.0	70
77	Geometric imaging of borophene polymorphs with functionalized probes. Nature Communications, 2019, 10, 1642.	5.8	65
78	How the Complementarity at Vicinal Steps Enables Growth of 2D Monocrystals. Nano Letters, 2019, 19, 2027-2031.	4.5	55
79	Width-dependent phase crossover in transition metal dichalcogenide nanoribbons. Nanotechnology, 2019, 30, 075701.	1.3	11
80	Two-Level Quantum Systems in Two-Dimensional Materials for Single Photon Emission. Nano Letters, 2019, 19, 408-414.	4.5	59
81	Graphene as an electrochemical transfer layer. Carbon, 2019, 141, 266-273.	5.4	17
82	Manganese deception on graphene and implications in catalysis. Carbon, 2018, 132, 623-631.	5.4	54
83	Direct and Indirect Interlayer Excitons in a van der Waals Heterostructure of hBN/WS ₂ /MoS ₂ /hBN. ACS Nano, 2018, 12, 2498-2505.	7.3	96
84	Honeycomb boron: alchemy on aluminum pan?. Science Bulletin, 2018, 63, 270-271.	4.3	31
85	Kinetic theory for the formation of diamond nanothreads with desired configurations: a strain-temperature controlled phase diagram. Nanoscale, 2018, 10, 9664-9672.	2.8	13
86	A library of atomically thin metal chalcogenides. Nature, 2018, 556, 355-359.	13.7	1,225
87	Machine learning electron density in sulfur crosslinked carbon nanotubes. Composites Science and Technology, 2018, 166, 3-9.	3.8	35
88	Oxidized Laser-Induced Graphene for Efficient Oxygen Electrocatalysis. Advanced Materials, 2018, 30, e1707319.	11.1	94
89	Unusual Negative Formation Enthalpies and Atomic Ordering in Isovalent Alloys of Transition Metal Dichalcogenide Monolayers. Chemistry of Materials, 2018, 30, 1547-1555.	3.2	20
90	Franck Condon shift assessment in 2D MoS ₂ . Journal of Physics Condensed Matter, 2018, 30, 095501.	0.7	8

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91	Mechanisms of the oxygen reduction reaction on B- and/or N-doped carbon nanomaterials with curvature and edge effects. <i>Nanoscale</i> , 2018, 10, 1129-1134.	2.8	81
92	Electrochemical CO ₂ Reduction with Atomic Iron-Dispersed on Nitrogen-Doped Graphene. <i>Advanced Energy Materials</i> , 2018, 8, 1703487.	10.2	369
93	Evolutionary selection growth of two-dimensional materials on polycrystalline substrates. <i>Nature Materials</i> , 2018, 17, 318-322.	13.3	204
94	Quaternary Alloys: Thermally Induced 2D Alloy-Heterostructure Transformation in Quaternary Alloys (Adv. Mater. 45/2018). <i>Advanced Materials</i> , 2018, 30, 1870344.	11.1	2
95	Carbon Nanotubes and Related Nanomaterials: Critical Advances and Challenges for Synthesis toward Mainstream Commercial Applications. <i>ACS Nano</i> , 2018, 12, 11756-11784.	7.3	388
96	In Pursuit of 2D Materials for Maximum Optical Response. <i>ACS Nano</i> , 2018, 12, 10880-10889.	7.3	50
97	Thermally Induced 2D Alloy-Heterostructure Transformation in Quaternary Alloys. <i>Advanced Materials</i> , 2018, 30, e1804218.	11.1	29
98	Zinc oxide-black phosphorus composites for ultrasensitive nitrogen dioxide sensing. <i>Nanoscale Horizons</i> , 2018, 3, 525-531.	4.1	52
99	Realizing Indirect-to-Direct Band Gap Transition in Few-Layer Two-Dimensional MX ₂ (M = Tj, ET, Qq1, 1, 0.784314, 19 BT / Ov)	2.5	19
100	Transient Kinetic Selectivity in Nanotubes Growth on Solid Co-W Catalyst. <i>Nano Letters</i> , 2018, 18, 5288-5293.	4.5	23
101	Chromiteen: A New 2D Oxide Magnetic Material from Natural Ore. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800549.	1.9	36
102	Intermixing and periodic self-assembly of borophene line defects. <i>Nature Materials</i> , 2018, 17, 783-788.	13.3	129
103	Type-II Multiferroic Hf ₂ VC ₂ F ₂ MXene Monolayer with High Transition Temperature. <i>Journal of the American Chemical Society</i> , 2018, 140, 9768-9773.	6.6	179
104	Dirac Cones and Nodal Line in Borophene. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2757-2762.	2.1	56
105	Ultrasharp h-BN Nanocones and the Origin of Their High Mechanical Stiffness and Large Dipole Moment. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5086-5091.	2.1	11
106	Dirac states from <i>p_{x,y}</i> orbitals in the buckled honeycomb structures: A tight-binding model and first-principles combined study. <i>Chinese Physics B</i> , 2018, 27, 087101.	0.7	4
107	Borophene as a prototype for synthetic 2D materials development. <i>Nature Nanotechnology</i> , 2018, 13, 444-450.	15.6	392
108	Glass composites reinforced with silicon-doped carbon nanotubes. <i>Carbon</i> , 2018, 128, 231-236.	5.4	15

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109	Mechanochemistry of One-Dimensional Boron: Structural and Electronic Transitions. <i>Journal of the American Chemical Society</i> , 2017, 139, 2111-2117.	6.6	41
110	High Performance Electrocatalytic Reaction of Hydrogen and Oxygen on Ruthenium Nanoclusters. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3785-3791.	4.0	108
111	B ₄₀ cluster stability, reactivity, and its planar structural precursor. <i>Nanoscale</i> , 2017, 9, 1805-1810.	2.8	33
112	Elasticity, Flexibility, and Ideal Strength of Borophenes. <i>Advanced Functional Materials</i> , 2017, 27, 1605059.	7.8	237
113	Engineering of the interactions of volatile organic compounds with MoS ₂ . <i>Journal of Materials Chemistry C</i> , 2017, 5, 1463-1470.	2.7	30
114	Growth of Molybdenum Carbide-Graphene Hybrids from Molybdenum Disulfide Atomic Layer Template. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600866.	1.9	14
115	A review on mechanics and mechanical properties of 2D materials-Graphene and beyond. <i>Extreme Mechanics Letters</i> , 2017, 13, 42-77.	2.0	920
116	Predicting stable phase monolayer Mo ₂ C (MXene), a superconductor with chemically-tunable critical temperature. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3438-3444.	2.7	88
117	Direct growth of MoS ₂ single crystals on polyimide substrates. <i>2D Materials</i> , 2017, 4, 021028.	2.0	39
118	Magnetic field controlled graphene oxide-based origami with enhanced surface area and mechanical properties. <i>Nanoscale</i> , 2017, 9, 6991-6997.	2.8	36
119	Correlation between types of defects/vacancies of Bi ₂ S ₃ nanostructures and their transient photocurrent. <i>Nano Research</i> , 2017, 10, 2405-2414.	5.8	8
120	Enhancing Mechanical Properties of Nanocomposites Using Interconnected Carbon Nanotubes (CNT) as Reinforcement. <i>Advanced Engineering Materials</i> , 2017, 19, 1600499.	1.6	7
121	Nanochimneys: Topology and Thermal Conductance of 3D Nanotube-Graphene Cone Junctions. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1257-1262.	1.5	17
122	Earth-Abundant and Non-Toxic SiX (X = S, Se) Monolayers as Highly Efficient Thermoelectric Materials. <i>Journal of Physical Chemistry C</i> , 2017, 121, 123-128.	1.5	41
123	Atomic H-Induced Mo ₂ C Hybrid as an Active and Stable Bifunctional Electrocatalyst. <i>ACS Nano</i> , 2017, 11, 384-394.	7.3	149
124	Two-Dimensional Boron Polymorphs for Visible Range Plasmonics: A First-Principles Exploration. <i>Journal of the American Chemical Society</i> , 2017, 139, 17181-17185.	6.6	135
125	Two-dimensional boron: structures, properties and applications. <i>Chemical Society Reviews</i> , 2017, 46, 6746-6763.	18.7	296
126	Gate-Voltage Control of Borophene Structure Formation. <i>Angewandte Chemie</i> , 2017, 129, 15623-15628.	1.6	18

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127	Phase Segregation Behavior of Two-Dimensional Transition Metal Dichalcogenide Binary Alloys Induced by Dissimilar Substitution. <i>Chemistry of Materials</i> , 2017, 29, 7431-7439.	3.2	27
128	Gate-Voltage Control of Borophene Structure Formation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15421-15426.	7.2	44
129	Design of Two-Dimensional Graphene-like Dirac Materials XBeB_5 (X = H, F). <i>ACS Nano</i> , 2017, 11, 4594-4599.	11.1	1
130	2D Materials: Quaternary 2D Transition Metal Dichalcogenides (TMDs) with Tunable Bandgap (Adv.). <i>ACS Nano</i> , 2017, 11, 1075-1081.	11.1	1
131	Quaternary 2D Transition Metal Dichalcogenides (TMDs) with Tunable Bandgap. <i>Advanced Materials</i> , 2017, 29, 1702457.	11.1	186
132	Self-optimizing, highly surface-active layered metal dichalcogenide catalysts for hydrogen evolution. <i>Nature Energy</i> , 2017, 2, .	19.8	336
133	Effect of Catalyst Structural Correlation on the Nucleation of Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18789-18794.	1.5	6
134	Defects in Two-Dimensional Materials. , 2017, , 359-378.		2
135	Tilt Grain Boundary Topology Induced by Substrate Topography. <i>ACS Nano</i> , 2017, 11, 8612-8618.	7.3	27
136	How Nitrogen-Doped Graphene Quantum Dots Catalyze Electroreduction of CO_2 to Hydrocarbons and Oxygenates. <i>ACS Catalysis</i> , 2017, 7, 6245-6250.	5.5	129
137	Highly Tunable Electronic Structures of Phosphorene/Carbon Nanotube Heterostructures through External Electric Field and Atomic Intercalation. <i>Nano Letters</i> , 2017, 17, 7995-8004.	4.5	15
138	Correction: Two-dimensional boron: structures, properties and applications. <i>Chemical Society Reviews</i> , 2017, 46, 7470-7470.	18.7	2
139	Mechanisms and theoretical simulations of the catalytic growth of nanocarbons. <i>MRS Bulletin</i> , 2017, 42, 794-801.	1.7	7
140	Mechanics of Materials Creation: Nanotubes, Graphene, Carbyne, Borophenes. <i>Procedia IUTAM</i> , 2017, 21, 17-24.	1.2	4
141	Single-Atomic Ruthenium Catalytic Sites on Nitrogen-Doped Graphene for Oxygen Reduction Reaction in Acidic Medium. <i>ACS Nano</i> , 2017, 11, 6930-6941.	7.3	435
142	A jellium model of a catalyst particle in carbon nanotube growth. <i>Journal of Chemical Physics</i> , 2017, 146, 244701.	1.2	5
143	Characterization of tin(II) sulfide defects/vacancies and correlation with their photocurrent. <i>Nano Research</i> , 2017, 10, 218-228.	5.8	8
144	Nanomechanics of carbon honeycomb cellular structures. <i>Carbon</i> , 2017, 113, 26-32.	5.4	64

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145	Oral vaccination of wildlife using a vaccinia rabies-glycoprotein recombinant virus vaccine (RABORAL V-RG [®]): a global review. <i>Veterinary Research</i> , 2017, 48, 57.	1.1	130
146	Tailoring the Electronic and Magnetic Properties of Two-Dimensional Silicon Carbide Sheets and Ribbons by Fluorination. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15407-15414.	1.5	8
147	Carbon Fibers: Carbonization with Misfusion: Fundamental Limits of Carbon-Fiber Strength Revisited (<i>Adv. Mater.</i> 46/2016). <i>Advanced Materials</i> , 2016, 28, 10342-10342.	11.1	0
148	Detecting the Biopolymer Behavior of Graphene Nanoribbons in Aqueous Solution. <i>Scientific Reports</i> , 2016, 6, 31174.	1.6	6
149	Topochemistry of Bowtie- and Star-Shaped Metal Dichalcogenide Nanoisland Formation. <i>Nano Letters</i> , 2016, 16, 3696-3702.	4.5	46
150	Growth of large-area aligned pentagonal graphene domains on high-index copper surfaces. <i>Nano Research</i> , 2016, 9, 2182-2189.	5.8	44
151	Strain-Induced Electronic Structure Changes in Stacked van der Waals Heterostructures. <i>Nano Letters</i> , 2016, 16, 3314-3320.	4.5	122
152	How Graphene Islands Are Unidirectionally Aligned on the Ge(110) Surface. <i>Nano Letters</i> , 2016, 16, 3160-3165.	4.5	92
153	Polyphony in B flat. <i>Nature Chemistry</i> , 2016, 8, 525-527.	6.6	148
154	Substrate-Induced Nanoscale Undulations of Borophene on Silver. <i>Nano Letters</i> , 2016, 16, 6622-6627.	4.5	155
155	Solid Vapor Reaction Growth of Transition Metal Dichalcogenide Monolayers. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10656-10661.	7.2	27
156	Solid Vapor Reaction Growth of Transition Metal Dichalcogenide Monolayers. <i>Angewandte Chemie</i> , 2016, 128, 10814-10819.	1.6	17
157	Spiral Growth of SnSe ₂ Crystals by Chemical Vapor Deposition. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600383.	1.9	55
158	Controllable and Predictable Viscoelastic Behavior of 3D Boron-Doped Multiwalled Carbon Nanotube Sponges. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 21-26.	1.2	6
159	A MoS ₂ -Based Capacitive Displacement Sensor for DNA Sequencing. <i>ACS Nano</i> , 2016, 10, 9009-9016.	7.3	40
160	Strain-Robust and Electric Field Tunable Band Alignments in van der Waals WSe ₂ Graphene Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22702-22709.	1.5	34
161	Carrier Delocalization in Two-Dimensional Coplanar p-n Junctions of Graphene and Metal Dichalcogenides. <i>Nano Letters</i> , 2016, 16, 5032-5036.	4.5	77
162	Thermomechanical analysis of two-dimensional boron monolayers. <i>Physical Review B</i> , 2016, 93, .	1.1	53

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163	Highly Itinerant Atomic Vacancies in Phosphorene. <i>Journal of the American Chemical Society</i> , 2016, 138, 10199-10206.	6.6	134
164	Chemical Trends of Electronic Properties of Two-Dimensional Halide Perovskites and Their Potential Applications for Electronics and Optoelectronics. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24682-24687.	1.5	41
165	High-throughput screening of metal-porphyrin-like graphenes for selective capture of carbon dioxide. <i>Scientific Reports</i> , 2016, 6, 21788.	1.6	31
166	Carbonization with Misfusion: Fundamental Limits of Carbonâ€Fiber Strength Revisited. <i>Advanced Materials</i> , 2016, 28, 10317-10322.	11.1	35
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