Kazu Suenaga

List of Publications by Year
in descending order

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		4370	4203
385	34,759	86	174
papers	citations	h-index	g-index

393	393	393	31932
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Direct evidence for atomic defects in graphene layers. Nature, 2004, 430, 870-873.	13.7	1,534
2	A library of atomically thin metal chalcogenides. Nature, 2018, 556, 355-359.	13.7	1,225
3	Atomic mechanism of the semiconducting-to-metallic phase transition in single-layered MoS2. Nature Nanotechnology, 2014, 9, 391-396.	15.6	1,146
4	Nano-aggregates of single-walled graphitic carbon nano-horns. Chemical Physics Letters, 1999, 309, 165-170.	1.2	1,144
5	Epitaxial growth of a monolayer WSe ₂ -MoS ₂ lateral p-n junction with an atomically sharp interface. Science, 2015, 349, 524-528.	6.0	1,009
6	Fabrication of a Freestanding Boron Nitride Single Layer and Its Defect Assignments. Physical Review Letters, 2009, 102, 195505.	2.9	973
7	Phase patterning for ohmic homojunction contact in MoTe ₂. Science, 2015, 349, 625-628.	6.0	918
8	Graphene Annealing: How Clean Can It Be?. Nano Letters, 2012, 12, 414-419.	4.5	801
9	MoS2 monolayer catalyst doped with isolated Co atoms for the hydrodeoxygenation reaction. Nature Chemistry, 2017, 9, 810-816.	6.6	683
10	Graphene Oxide: Structural Analysis and Application as a Highly Transparent Support for Electron Microscopy. ACS Nano, 2009, 3, 2547-2556.	7.3	629
11	New Porous Crystals of Extended Metal-Catecholates. Chemistry of Materials, 2012, 24, 3511-3513.	3.2	618
12	Deriving Carbon Atomic Chains from Graphene. Physical Review Letters, 2009, 102, 205501.	2.9	571
13	Tunable Band Gap Photoluminescence from Atomically Thin Transition-Metal Dichalcogenide Alloys. ACS Nano, 2013, 7, 4610-4616.	7.3	543
14	Open and Closed Edges of Graphene Layers. Physical Review Letters, 2009, 102, 015501.	2.9	539
15	One-Dimensional Metallofullerene Crystal Generated Inside Single-Walled Carbon Nanotubes. Physical Review Letters, 2000, 85, 5384-5387.	2.9	510
16	Coaxial Nanocable: Silicon Carbide and Silicon Oxide Sheathed with Boron Nitride and Carbon. , 1998, 281, 973-975.		491
17	Synthesis of Nanoparticles and Nanotubes with Well-Separated Layers of Boron Nitride and Carbon. Science, 1997, 278, 653-655.	6.0	480
18	Atom-by-atom spectroscopy at graphene edge. Nature, 2010, 468, 1088-1090.	13.7	446

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19	Weaving of organic threads into a crystalline covalent organic framework. Science, 2016, 351, 365-369.	6.0	427
20	AtomicallyÂthin noble metal dichalcogenide: a broadband mid-infrared semiconductor. Nature Communications, 2018, 9, 1545.	5.8	367
21	Single-Layer ReS₂: Two-Dimensional Semiconductor with Tunable In-Plane Anisotropy. ACS Nano, 2015, 9, 11249-11257.	7.3	353
22	Confined linear carbon chains as a route to bulkÂcarbyne. Nature Materials, 2016, 15, 634-639.	13.3	341
23	Imaging active topological defects in carbon nanotubes. Nature Nanotechnology, 2007, 2, 358-360.	15.6	338
24	High-quality monolayer superconductor NbSe2 grown by chemical vapour deposition. Nature Communications, 2017, 8, 394.	5.8	290
25	Element-Selective Single Atom Imaging. Science, 2000, 290, 2280-2282.	6.0	288
26	Vapourâ€“liquidâ€“solid growth of monolayer MoS2 nanoribbons. Nature Materials, 2018, 17, 535-542.	13.3	286
27	Clean Transfer of Graphene for Isolation and Suspension. ACS Nano, 2011, 5, 2362-2368.	7.3	285
28	High-yield fullerene encapsulation in single-wall carbon nanotubes. Synthetic Metals, 2001, 121, 1195-1196.	2.1	270
29	Properties of Individual Dopant Atoms in Singleâ€Layer MoS₂: Atomic Structure, Migration, and Enhanced Reactivity. Advanced Materials, 2014, 26, 2857-2861.	11.1	258
30	Synthesis and properties of free-standing monolayer amorphous carbon. Nature, 2020, 577, 199-203.	13.7	250
31	Electron knock-on damage in hexagonal boron nitride monolayers. Physical Review B, 2010, 82, .	1.1	241
32	Imaging of Single Organic Molecules in Motion. Science, 2007, 316, 853-853.	6.0	240
33	One-dimensional van der Waals heterostructures. Science, 2020, 367, 537-542.	6.0	238
34	Flexible metallic nanowires with self-adaptive contacts to semiconducting transition-metal dichalcogenide monolayers. Nature Nanotechnology, 2014, 9, 436-442.	15.6	228
35	Mixed Low-Dimensional Nanomaterial: 2D Ultranarrow MoS₂ Inorganic Nanoribbons Encapsulated in Quasi-1D Carbon Nanotubes. Journal of the American Chemical Society, 2010, 132, 13840-13847.	6.6	218
36	Heterogeneous growth of Bî—¸Cî—¸N nanotubes by laser ablation. Chemical Physics Letters, 1997, 279, 264-269.	1.2	209

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37	Structural and Chemical Dynamics of Pyridinic-Nitrogen Defects in Graphene. Nano Letters, 2015, 15, 7408-7413.	4.5	204
38	Plumbing carbon nanotubes. Nature Nanotechnology, 2008, 3, 17-21.	15.6	202
39	Visualization and quantification of transition metal atomic mixing in Mo1â^'xWxS2 single layers. Nature Communications, 2013, 4, 1351.	5.8	202
40	Cross-Linked Nano-onions of Carbon Nitride in the Solid Phase: Existence of a NovelC48N12Aza-Fullerene. Physical Review Letters, 2001, 87, 225503.	2.9	184
41	Largeâ€Area and Highâ€Quality 2D Transition Metal Telluride. Advanced Materials, 2017, 29, 1603471.	11.1	181
42	Three-fold rotational defects in two-dimensional transition metal dichalcogenides. Nature Communications, 2015, 6, 6736.	5.8	179
43	Photoluminescence Enhancement and Structure Repairing of Monolayer MoSe₂ by Hydrohalic Acid Treatment. ACS Nano, 2016, 10, 1454-1461.	7.3	179
44	A Catalytic Reaction Inside a Singleâ€Walled Carbon Nanotube. Advanced Materials, 2008, 20, 1443-1449.	11.1	178
45	Large intrinsic energy bandgaps in annealed nanotube-derived graphene nanoribbons. Nature Nanotechnology, 2011, 6, 45-50.	15.6	177
46	Gentle STEM: ADF imaging and EELS at low primary energies. Ultramicroscopy, 2010, 110, 935-945.	0.8	174
47	Twisting Bilayer Graphene Superlattices. ACS Nano, 2013, 7, 2587-2594.	7.3	173
48	Graphene Nanoribbons from Unzipped Carbon Nanotubes: Atomic Structures, Raman Spectroscopy, and Electrical Properties. Journal of the American Chemical Society, 2011, 133, 10394-10397.	6.6	170
49	Electron diffraction study of one-dimensional crystals of fullerenes. Physical Review B, 2001, 64, .	1.1	168
50	Linking Chiral Indices and Transport Properties of Double-Walled Carbon Nanotubes. Physical Review Letters, 2002, 89, 155501.	2.9	164
51	Growth and Optical Properties of High-Quality Monolayer WS₂ on Graphite. ACS Nano, 2015, 9, 4056-4063.	7.3	162
52	Transition metal atom doping of the basal plane of MoS₂ monolayer nanosheets for electrochemical hydrogen evolution. Chemical Science, 2018, 9, 4769-4776.	3.7	162
53	Visualizing and identifying single atoms using electron energy-loss spectroscopy with low accelerating voltage. Nature Chemistry, 2009, 1, 415-418.	6.6	152
54	Fabricating Dualâ€Atom Iron Catalysts for Efficient Oxygen Evolution Reaction: A Heteroatom Modulator Approach. Angewandte Chemie - International Edition, 2020, 59, 16013-16022.	7.2	151

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55	Metalâ€Free Growth of Nanographene on Silicon Oxides for Transparent Conducting Applications. Advanced Functional Materials, 2012, 22, 2123-2128.	7.8	150
56	Remote Catalyzation for Direct Formation of Graphene Layers on Oxides. Nano Letters, 2012, 12, 1379-1384.	4.5	146
57	InÂSituObservation of Thermal Relaxation of Interstitial-Vacancy Pair Defects in a Graphite Gap. Physical Review Letters, 2005, 94, 155502.	2.9	142
58	Imaging the atomic structure of activated carbon. Journal of Physics Condensed Matter, 2008, 20, 362201.	0.7	142
59	Polymorphic Structures of Iodine and Their Phase Transition in Confined Nanospace. Nano Letters, 2007, 7, 1532-1535.	4.5	139
60	Carbon nitride nanotubulite â€“ densely-packed and well-aligned tubular nanostructures. Chemical Physics Letters, 1999, 300, 695-700.	1.2	137
61	Dielectric response of isolated carbon nanotubes investigated by spatially resolved electron energy-loss spectroscopy:â€ƒFrom multiwalled to single-walled nanotubes. Physical Review B, 2002, 66, .	1.1	129
62	Analysis of the reactivity and selectivity of fullerene dimerization reactions at the atomic level. Nature Chemistry, 2010, 2, 117-124.	6.6	127
63	Metalâ€“Semiconductor Phaseâ€Transition in WSe_{2(1â€}_x₎Te₂_x Monolayer. Advanced Materials, 2017, 29, 1603991.	11.1	123
64	Radially modulated nitrogen distribution in CNx nanotubular structures prepared by CVD using Ni phthalocyanine. Chemical Physics Letters, 2000, 316, 365-372.	1.2	116
65	Ambipolar field-effect transistor behavior of Gd@C82 metallofullerene peapods. Applied Physics Letters, 2002, 81, 4067-4069.	1.5	116
66	Heterogeneous nucleation of organic crystals mediated by single-molecule templates. Nature Materials, 2012, 11, 877-881.	13.3	112
67	Enhanced performance of in-plane transition metal dichalcogenides monolayers by configuring local atomic structures. Nature Communications, 2020, 11, 2253.	5.8	112
68	Single Atomically Sharp Lateral Monolayer pâ€n Heterojunction Solar Cells with Extraordinarily High Power Conversion Efficiency. Advanced Materials, 2017, 29, 1701168.	11.1	111
69	Novel <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Pd</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mrow><mml:mi>Se</mml:mi></mml:mrow></mml:mrow></mml:math> Two-Dimensional Phase Driven by Interlayer Fusion in Layered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>PdSe</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2017, 119, 016101.	2.9	111
70	Auto-optimizing Hydrogen Evolution Catalytic Activity of ReS₂ through Intrinsic Charge Engineering. ACS Nano, 2018, 12, 4486-4493.	7.3	111
71	Plasmons in layered nanospheres and nanotubes investigated by spatially resolved electron energy-loss spectroscopy. Physical Review B, 2000, 61, 13936-13944.	1.1	110
72	Controllable Synthesis of Atomically Thin Typeâ€II Weyl Semimetal WTe₂ Nanosheets: An Advanced Electrode Material for Allâ€Solidâ€State Flexible Supercapacitors. Advanced Materials, 2017, 29, 1701909.	11.1	107

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73	EELS and13C NMR Characterization of Pure Ti2@C80Metallofullerene. Journal of the American Chemical Society, 2001, 123, 9679-9680.	6.6	106
74	Selective deposition of a gadolinium(III) cluster in a hole opening of single-wall carbon nanohorn. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8527-8530.	3.3	106
75	Encapsulated and hollow closed-cage structures of WS2 and MoS2 prepared by laser ablation at 450â€“1050Â°C. Chemical Physics Letters, 2001, 340, 242-248.	1.2	100
76	Smallest Carbon Nanotube Assigned with Atomic Resolution Accuracy. Nano Letters, 2008, 8, 459-462.	4.5	100
77	Performance of low-voltage STEM/TEM with delta corrector and cold field emission gun. Journal of Electron Microscopy, 2010, 59, S7-S13.	0.9	98
78	Atomic Structure and Spectroscopy of Single Metal (Cr, V) Substitutional Dopants in Monolayer MoS₂. ACS Nano, 2016, 10, 10227-10236.	7.3	96
79	Position and momentum mapping of vibrations in graphene nanostructures. Nature, 2019, 573, 247-250.	13.7	96
80	Structure and electronic properties of a nongraphitic disordered carbon system and its heat-treatment effects. Physical Review B, 2003, 67, .	1.1	94
81	Atomic-Resolution Imaging of the Nucleation Points of Single-Walled Carbon Nanotubes. Small, 2005, 1, 1180-1183.	5.2	93
82	Coaxially Stacked Coronene Columns inside Singleâ€Walled Carbon Nanotubes. Angewandte Chemie - International Edition, 2011, 50, 4853-4857.	7.2	92
83	InSe monolayer: synthesis, structure and ultra-high second-harmonic generation. 2D Materials, 2018, 5, 025019.	2.0	92
84	Engineering Monolayer 1T-MoS₂ into a Bifunctional Electrocatalyst via Sonochemical Doping of Isolated Transition Metal Atoms. ACS Catalysis, 2019, 9, 7527-7534.	5.5	92
85	Evidence for Active Atomic Defects in Monolayer Hexagonal Boron Nitride: A New Mechanism of Plasticity in Two-Dimensional Materials. Nano Letters, 2014, 14, 1064-1068.	4.5	90
86	Dualâ€Metal Interbonding as the Chemical Facilitator for Singleâ€Atom Dispersions. Advanced Materials, 2020, 32, e2003484.	11.1	90
87	Perovskite Solar Cells Using Carbon Nanotubes Both as Cathode and as Anode. Journal of Physical Chemistry C, 2017, 121, 25743-25749.	1.5	89
88	Material Storage Mechanism in Porous Nanocarbon. Advanced Materials, 2004, 16, 397-401.	11.1	88
89	Atomic Correlation Between Adjacent Graphene Layers in Double-Wall Carbon Nanotubes. Physical Review Letters, 2005, 94, 045504.	2.9	88
90	Photogating WS₂ Photodetectors Using Embedded WSe₂ Charge Puddles. ACS Nano, 2020, 14, 4559-4566.	7.3	87

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91	Real Time Reaction Dynamics in Carbon Nanotubes. Journal of the American Chemical Society, 2001, 123, 9673-9674.	6.6	85
92	Identification of active atomic defects in a monolayered tungsten disulphide nanoribbon. Nature Communications, 2011, 2, 213.	5.8	85
93	Imaging the dynamic behaviour of individual retinal chromophores confined inside carbon nanotubes. Nature Nanotechnology, 2007, 2, 422-425.	15.6	84
94	In-Situ Formation of Sandwiched Structures of Nanotube/Cu_xO_y/Cu Composites for Lithium Battery Applications. ACS Nano, 2009, 3, 2177-2184.	7.3	84
95	Controllable Synthesis of Band-Gap-Tunable and Monolayer Transition-Metal Dichalcogenide Alloys. Frontiers in Energy Research, 2014, 2, .	1.2	84
96	Synthesis of Coâ€Doped MoS₂ Monolayers with Enhanced Valley Splitting. Advanced Materials, 2020, 32, e1906536.	11.1	84
97	Atomic structure and dynamic behaviour of trulyÂone-dimensional ionic chains inside carbonÂnanotubes. Nature Materials, 2014, 13, 1050-1054.	13.3	82
98	Direct Observation of Band Structure Modifications in Nanocrystals of CsPbBr₃ Perovskite. Nano Letters, 2016, 16, 7198-7202.	4.5	82
99	Exploring the Single Atom Spin State by Electron Spectroscopy. Physical Review Letters, 2015, 115, 206803.	2.9	80
100	Vacancy Migrations in Carbon Nanotubes. Nano Letters, 2008, 8, 1127-1130.	4.5	79
101	Exciton Mapping at Subwavelength Scales in Two-Dimensional Materials. Physical Review Letters, 2015, 114, 107601.	2.9	79
102	Transport evidence of asymmetric spinâ€“orbit coupling in few-layer superconducting 1Td-MoTe2. Nature Communications, 2019, 10, 2044.	5.8	79
103	Which Do Endohedral Ti2C80Metallofullerenes Prefer Energetically:Â Ti2@C80or Ti2C2@C78? A Theoretical Study. Journal of Physical Chemistry B, 2005, 109, 20251-20255.	1.2	78
104	Wafer-scale and deterministic patterned growth of monolayer MoS₂via vaporâ€“liquidâ€“solid method. Nanoscale, 2019, 11, 16122-16129.	2.8	76
105	Nanorods of Endohedral Metallofullerene Derivative. Journal of the American Chemical Society, 2008, 130, 450-451.	6.6	75
106	Controlled Synthesis of Atomically Thin 1T-TaS₂ for Tunable Charge Density Wave Phase Transitions. Chemistry of Materials, 2016, 28, 7613-7618.	3.2	75
107	Cation-mixing stabilized layered oxide cathodes for sodium-ion batteries. Science Bulletin, 2018, 63, 376-384.	4.3	75
108	Ultra-narrow WS₂nanoribbons encapsulated in carbon nanotubes. Journal of Materials Chemistry, 2011, 21, 171-180.	6.7	74

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109	Stable 1T Tungsten Disulfide Monolayer and Its Junctions: Growth and Atomic Structures. ACS Nano, 2018, 12, 12080-12088.	7.3	74
110	Towards atomically precise manipulation of 2D nanostructures in the electron microscope. 2D Materials, 2017, 4, 042004.	2.0	73
111	Dynamics of Carbon Nanotube Growth from Fullerenes. Nano Letters, 2007, 7, 2428-2434.	4.5	72
112	Epitaxial Synthesis of Monolayer PtSe₂ Single Crystal on MoSe₂ with Strong Interlayer Coupling. ACS Nano, 2019, 13, 10929-10938.	7.3	72
113	Electron energy-loss spectroscopy of electron states in isolated carbon nanostructures. Physical Review B, 2001, 63, .	1.1	71
114	Synthesis and Transport Properties of Degenerate P-Type Nb-Doped WS₂ Monolayers. Chemistry of Materials, 2019, 31, 3534-3541.	3.2	71
115	Correction of higher order geometrical aberration by triple 3-fold astigmatism field. Journal of Electron Microscopy, 2009, 58, 341-347.	0.9	70
116	Experimental Observation of Boron Nitride Chains. ACS Nano, 2014, 8, 11950-11957.	7.3	70
117	Direct Imaging ofSc2@C84Molecules Encapsulated Inside Single-Wall Carbon Nanotubes by High Resolution Electron Microscopy with Atomic Sensitivity. Physical Review Letters, 2003, 90, 055506.	2.9	69
118	Chiral-Angle Distribution for Separated Single-Walled Carbon Nanotubes. Nano Letters, 2008, 8, 3151-3154.	4.5	69
119	Revealing the Atomic Defects of WS₂ Governing Its Distinct Optical Emissions. Advanced Functional Materials, 2018, 28, 1704210.	7.8	69
120	Temperature Dependence of the Reconstruction of Zigzag Edges in Graphene. ACS Nano, 2015, 9, 4786-4795.	7.3	68
121	Carbon Nanotubes as Electrically Active Nanoreactors for Multi-Step Inorganic Synthesis: Sequential Transformations of Molecules to Nanoclusters and Nanoclusters to Nanoribbons. Journal of the American Chemical Society, 2016, 138, 8175-8183.	6.6	68
122	Hybridization of Single Nanocrystals of Cs₄PbBr₆ and CsPbBr₃. Journal of Physical Chemistry C, 2017, 121, 19490-19496.	1.5	68
123	Chemical vapor deposition of trigonal prismatic NbS₂ monolayers and 3R-polytype few-layers. Nanoscale, 2017, 9, 16607-16611.	2.8	67
124	Morphology Engineering in Monolayer MoS₂â€WS₂ Lateral Heterostructures. Advanced Functional Materials, 2018, 28, 1801568.	7.8	67
125	Tunable Doping of Rhenium and Vanadium into Transition Metal Dichalcogenides for Twoâ€Dimensional Electronics. Advanced Science, 2021, 8, e2004438.	5.6	66
126	How accurate can the determination of chiral indices of carbon nanotubes be?. European Physical Journal B, 2003, 32, 457-469.	0.6	65

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127	A strategy to control the chirality of single-walled carbon nanotubes. Journal of Crystal Growth, 2008, 310, 5473-5476.	0.7	65
128	Screening the Missing Electron: Nanochemistry in Action. Physical Review Letters, 2009, 102, 046804.	2.9	64
129	Surface-Mediated Aligned Growth of Monolayer MoS₂ and In-Plane Heterostructures with Graphene on Sapphire. ACS Nano, 2018, 12, 10032-10044.	7.3	64
130	Structures ofD5d-C80andIh-Er3N@C80Fullerenes and Their Rotation Inside Carbon Nanotubes Demonstrated by Aberration-Corrected Electron Microscopy. Nano Letters, 2007, 7, 3704-3708.	4.5	63
131	Composition and phase engineering of metal chalcogenides and phosphorous chalcogenides. Nature Materials, 2023, 22, 450-458.	13.3	62
132	Metallic Wires of Lanthanum Atoms Inside Carbon Nanotubes. Journal of the American Chemical Society, 2008, 130, 2162-2163.	6.6	61
133	Isolation of Single-Wired Transition-Metal Monochalcogenides by Carbon Nanotubes. Nano Letters, 2019, 19, 4845-4851.	4.5	61
134	Doping of single-walled carbon nanotubes controlled via chemical transformation of encapsulated nickelocene. Nanoscale, 2015, 7, 1383-1391.	2.8	60
135	Hydrogen-Assisted Epitaxial Growth of Monolayer Tungsten Disulfide and Seamless Grain Stitching. Chemistry of Materials, 2018, 30, 403-411.	3.2	60
136	Polymeric acid-doped transparent carbon nanotube electrodes for organic solar cells with the longest doping durability. Journal of Materials Chemistry A, 2018, 6, 14553-14559.	5.2	60
137	Transport properties of C78, C90 and Dy@C82 fullerenes-nanopeapods by field effect transistors. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 1089-1092.	1.3	58
138	Growth and optical properties of Nb-doped WS₂ monolayers. Applied Physics Express, 2016, 9, 071201.	1.1	58
139	Atomic mechanism of metal crystal nucleus formation in a single-walled carbon nanotube. Nature Chemistry, 2020, 12, 921-928.	6.6	58
140	Defect-Induced Atomic Migration in Carbon Nanopeapod:Â Tracking the Single-Atom Dynamic Behavior. Nano Letters, 2004, 4, 2451-2454.	4.5	57
141	Detection of photons emitted from single erbium atoms in energy-dispersive X-ray spectroscopy. Nature Photonics, 2012, 6, 545-548.	15.6	57
142	Functionalized graphene sheets coordinating metal cations. Carbon, 2014, 75, 81-94.	5.4	57
143	Growth and Raman Spectra of Single-Crystal Trilayer Graphene with Different Stacking Orientations. ACS Nano, 2014, 8, 10766-10773.	7.3	56
144	Single-atom electron energy loss spectroscopy of light elements. Nature Communications, 2015, 6, 7943.	5.8	56

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145	Preparation and Photophysical and Photoelectrochemical Properties of a Covalently Fixed Porphyrinâ€“Chemically Converted Graphene Composite. Chemistry - A European Journal, 2012, 18, 4250-4257.	1.7	55
146	In situ observation of step-edge in-plane growth of graphene in a STEM. Nature Communications, 2014, 5, 4055.	5.8	55
147	Proton and Li-Ion Permeation through Graphene with Eight-Atom-Ring Defects. ACS Nano, 2020, 14, 7280-7286.	7.3	55
148	Catalyst and Chirality Dependent Growth of Carbon Nanotubes Determined Through Nanoâ€Test Tube Chemistry. Advanced Materials, 2010, 22, 3685-3689.	11.1	54
149	Core-Level Spectroscopy of Point Defects in Single Layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>h</mml:mi></mml:math>-BN. Physical Review Letters, 2012, 108, 075501.	2.9	54
150	Direct Imaging of the Alkali Metal Site in K-Doped Fullerene Peapods. Physical Review Letters, 2005, 94, 045502.	2.9	53
151	Fine-structure analysis of GdM45near-edge EELS on the valence state ofGd@C82microcrystals. Physical Review B, 2000, 62, 1627-1630.	1.1	52
152	Anisotropic Ordering in 1Tâ€² Molybdenum and Tungsten Ditelluride Layers Alloyed with Sulfur and Selenium. ACS Nano, 2018, 12, 894-901.	7.3	52
153	Imaging the Structure, Symmetry, and Surface-Inhibited Rotation of Polyoxometalate Ions on Graphene Oxide. Nano Letters, 2010, 10, 4600-4606.	4.5	51
154	Optical orientation and alignment of excitons in ensembles of inorganic perovskite nanocrystals. Physical Review B, 2018, 97, .	1.1	51
155	Direct Imaging of the Structure, Relaxation, and Sterically Constrained Motion of Encapsulated Tungsten Polyoxometalate Lindqvist Ions within Carbon Nanotubes. ACS Nano, 2008, 2, 966-976.	7.3	50
156	Synthesis and Characterization of Eu-Metallofullerenes from Eu@C74to Eu@C90and Their Nanopeapods. Journal of Physical Chemistry B, 2004, 108, 9011-9015.	1.2	47
157	Entrapping of Exohedral Metallofullerenes in Carbon Nanotubes:â€‰ (CsC60)n@SWNT Nano-Peapods. Journal of the American Chemical Society, 2005, 127, 17972-17973.	6.6	47
158	Templateâ€Assisted Synthesis of Metallic 1Tâ€²â€Sn_{0.3}W_{0.7}S₂ Nanosheets for Hydrogen Evolution Reaction. Advanced Functional Materials, 2020, 30, 1906069.	7.8	47
159	Enantioselective Synthesis of Attenols A and B. Organic Letters, 2001, 3, 527-529.	2.4	46
160	Grapheneâ€“Transition Metal Dichalcogenide Heterojunctions for Scalable and Low-Power Complementary Integrated Circuits. ACS Nano, 2020, 14, 985-992.	7.3	46
161	Production, Isolation, and EELS Characterization of Ti2@C84 Dititanium Metallofullerenes. Journal of Physical Chemistry B, 2002, 106, 9295-9298.	1.2	45
162	Evidence for the Intramolecular Motion of Gd Atoms in a Gd2@C92Nanopeapod. Nano Letters, 2003, 3, 1395-1398.	4.5	45

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163	Higher-order aberration corrector for an image-forming system in a transmission electron microscope. Ultramicroscopy, 2010, 110, 958-961.	0.8	45
164	Stability and Spectroscopy of Single Nitrogen Dopants in Graphene at Elevated Temperatures. ACS Nano, 2014, 8, 11806-11815.	7.3	45
165	Atomic-Resolution STEM Imaging of Graphene at Low Voltage of 30ÂkV with Resolution Enhancement by Using Large Convergence Angle. Physical Review Letters, 2015, 114, 166102.	2.9	45
166	Preparing a Magnetically Responsive Single-Wall Carbon Nanohorn Colloid by Anchoring Magnetite Nanoparticles. Journal of Physical Chemistry B, 2006, 110, 7165-7170.	1.2	44
167	Structural Distortions and Charge Density Waves in Iodine Chains Encapsulated inside Carbon Nanotubes. Nano Letters, 2017, 17, 3694-3700.	4.5	44
168	Ultrafast Monolayer In/Gr-WS₂-Gr Hybrid Photodetectors with High Gain. ACS Nano, 2019, 13, 3269-3279.	7.3	44
169	Transmission Electron Microscopy Imaging of Individual Functional Groups of Fullerene Derivatives. Physical Review Letters, 2006, 96, 088304.	2.9	43
170	Photoluminescence quenching in peapod-derived double-walled carbon nanotubes. Physical Review B, 2006, 74, .	1.1	43
171	Electron Microscopic Imaging of a Single Group 8 Metal Atom Catalyzing Câ€“C Bond Reorganization of Fullerenes. Journal of the American Chemical Society, 2011, 133, 14151-14153.	6.6	43
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