Kazu Suenaga

List of Publications by Year in Descending Order

380 papers	27,895 citations	79 h-index	158 g-index
393 ext. papers	31,311 ext. citations	10.4 avg, IF	7.05 L-index

#	Paper	IF	Citations
380	Tuning of photoluminescence intensity and Fermi level position of individual single-walled carbon nanotubes by molecule confinement. *Carbon*, **2022**, 186, 423-430	10.4	0
379	Imaging of isotope diffusion using atomic-scale vibrational spectroscopy.. *Nature*, **2022**, 603, 68-72	50.4	2
378	Multiple 2D Phase Transformations in Monolayer Transition Metal Chalcogenides.. *Advanced Materials*, **2022**, e2200643	24	1
377	Coupling and Decoupling of Bilayer Graphene Monitored by Electron Energy Loss Spectroscopy. *Nano Letters*, **2021**,	11.5	4
376	Optoelectronic Properties of Atomically Thin MoWS Nanoflakes Probed by Spatially-Resolved Monochromated EELS.. *Nanomaterials*, **2021**, 11,	5.4	2
375	Polymorphic Phases of Metal Chlorides in the Confined 2D Space of Bilayer Graphene. *Advanced Materials*, **2021**, 33, e2105898	24	5
374	Embedment of Multiple Transition Metal Impurities into WS Monolayer for Bandstructure Modulation. *Small*, **2021**, 17, e2007171	11	0
373	Deciphering the Intense Postgap Absorptions of Monolayer Transition Metal Dichalcogenides. *ACS Nano*, **2021**, 15, 7783-7789	16.7	2
372	Realizing the Intrinsic Anisotropic Growth of 1T? ReS2 on Selected Au(101) Substrate toward Large-Scale Single Crystal Fabrication. *Advanced Functional Materials*, **2021**, 31, 2102138	15.6	9
371	Tunable Doping of Rhenium and Vanadium into Transition Metal Dichalcogenides for Two-Dimensional Electronics. *Advanced Science*, **2021**, 8, e2004438	13.6	15
370	Rapid Interchangeable Hydrogen, Hydride, and Proton Species at the Interface of Transition Metal Atom on Oxide Surface. *Journal of the American Chemical Society*, **2021**, 143, 9105-9112	16.4	7
369	Fe on molecular-layer MoS2 as inorganic Fe-S2-Mo motifs for light-driven nitrogen fixation to ammonia at elevated temperatures. *Chem Catalysis*, **2021**, 1, 162-182		11
368	In-situ TEM observation of the growth process of carbon nanomaterials by laser irradiation. *Microscopy and Microanalysis*, **2021**, 27, 2344-2345	0.5	1
367	Toward Confined Carbyne with Tailored Properties. *Nano Letters*, **2021**, 21, 1096-1101	11.5	15
366	Formation of Highly Doped Nanostripes in 2D Transition Metal Dichalcogenides via a Dislocation Climb Mechanism. *Advanced Materials*, **2021**, 33, e2007819	24	3
365	Two-dimensional iodine-monofluoride epitaxy on WSe2. *Npj 2D Materials and Applications*, **2021**, 5,	8.8	2
364	Photothermal synthesis of confined carbyne. *Carbon*, **2021**, 182, 348-353	10.4	0

363	In-situ derived highly active NiS2 and MoS2 nanosheets on NiMoO4 microcuboids via controlled surface sulfidation for high-current-density hydrogen evolution reaction. *Electrochimica Acta*, **2021**, 389, 138733	6.7	0
362	One-dimensional van der Waals heterostructures: Growth mechanism and handedness correlation revealed by nondestructive TEM. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	13
361	Mixed-Salt Enhanced Chemical Vapor Deposition of Two-Dimensional Transition Metal Dichalcogenides. *Chemistry of Materials*, **2021**, 33, 7301-7308	9.6	7
360	Thermal management function of graphene under cryogenic temperature. *Carbon*, **2021**, 183, 970-976	10.4	0
359	One-step synthesis of BaTiO3/CaTiO3 core-shell nanocubes by hydrothermal reaction. *Journal of Asian Ceramic Societies*, **2021**, 9, 359-365	2.4	3
358	Polymorphic Phases of Metal Chlorides in the Confined 2D Space of Bilayer Graphene (Adv. Mater. 52/2021). *Advanced Materials*, **2021**, 33, 2170415	24	0
357	Scalable T-Gate Aligned Gr□WS2□r Radio-Frequency Field-Effect Transistors. *ACS Applied Electronic Materials*, **2020**, 2, 3898-3905	4	6
356	In Situ Observation of Structural Changes in Low-dimensional Materials by Means of TEM and STEM. *Microscopy and Microanalysis*, **2020**, 26, 88-89	0.5	1
355	Proton and Li-Ion Permeation through Graphene with Eight-Atom-Ring Defects. *ACS Nano*, **2020**, 14, 7280-7286	16.7	27
354	Filling control of n-type and p-type dopant molecules in single-wall carbon nanotubes. *Applied Physics Express*, **2020**, 13, 065003	2.4	1
353	Enhanced performance of in-plane transition metal dichalcogenides monolayers by configuring local atomic structures. *Nature Communications*, **2020**, 11, 2253	17.4	58
352	Isothermal Growth and Stacking Evolution in Highly Uniform Bernal-Stacked Bilayer Graphene. *ACS Nano*, **2020**, 14, 6834-6844	16.7	17
351	Fabricating Dual-Atom Iron Catalysts for Efficient Oxygen Evolution Reaction: A Heteroatom Modulator Approach. *Angewandte Chemie - International Edition*, **2020**, 59, 16013-16022	16.4	60
350	Strong Band Bowing Effects and Distinctive Optoelectronic Properties of 2H and 1T? Phase-Tunable MoxRe1□S2 Alloys. *Advanced Functional Materials*, **2020**, 30, 2003264	15.6	18
349	STEM imaging artifacts with three-fold astigmatism in monolayer transition metal dichalcogenides. *Applied Physics Letters*, **2020**, 116, 243102	3.4	4
348	Direct observation and catalytic role of mediator atom in 2D materials. *Science Advances*, **2020**, 6, eaba4942	14.3	5
347	Transition metal atom□oped monolayer MoS2 in a proton-exchange membrane electrolyzer. *Materials Today Advances*, **2020**, 6, 100020	7.4	14
346	Fabricating Dual-Atom Iron Catalysts for Efficient Oxygen Evolution Reaction: A Heteroatom Modulator Approach. *Angewandte Chemie*, **2020**, 132, 16147-16156	3.6	11

345	Synthesis of 2H-1T? WS2-ReS2 Heterophase Structures with Atomically Sharp Interface via Hydrogen-Triggered One-Pot Growth. *Advanced Functional Materials*, **2020**, 30, 1910169	15.6	24
344	Direct Growth of Wafer-Scale, Transparent, p-Type Reduced-Graphene-Oxide-like Thin Films by Pulsed Laser Deposition. *ACS Nano*, **2020**, 14, 3290-3298	16.7	6
343	Probing Exciton Dispersions of Freestanding Monolayer WSe_{2} by Momentum-Resolved Electron Energy-Loss Spectroscopy. *Physical Review Letters*, **2020**, 124, 087401	7.4	13
342	One-dimensional van der Waals heterostructures. *Science*, **2020**, 367, 537-542	33.3	119
341	High-precision thickness control of ice layer on CVD grown bilayer graphene for cryo-TEM. *Carbon*, **2020**, 160, 107-112	10.4	7
340	Synthesis of Co-Doped MoS Monolayers with Enhanced Valley Splitting. *Advanced Materials*, **2020**, 32, e1906536	24	35
339	Nanoheterostructures of Partially Oxidized RuNi Alloy as Bifunctional Electrocatalysts for Overall Water Splitting. *ChemSusChem*, **2020**, 13, 2739-2744	8.3	9
338	Photogating WS Photodetectors Using Embedded WSe Charge Puddles. *ACS Nano*, **2020**, 14, 4559-4566	16.7	40
337	Atomic-Resolution Imaging of Graphene Using an Ultrahigh-vacuum Microscope with a High-brightness Electron Gun. *Microscopy and Microanalysis*, **2020**, 26, 2358-2359	0.5	
336	Synthesis and properties of free-standing monolayer amorphous carbon. *Nature*, **2020**, 577, 199-203	50.4	104
335	Graphene-Transition Metal Dichalcogenide Heterojunctions for Scalable and Low-Power Complementary Integrated Circuits. *ACS Nano*, **2020**, 14, 985-992	16.7	20
334	Template-Assisted Synthesis of Metallic 1T?-Sn0.3W0.7S2 Nanosheets for Hydrogen Evolution Reaction. *Advanced Functional Materials*, **2020**, 30, 1906069	15.6	31
333	Dual-Metal Interbonding as the Chemical Facilitator for Single-Atom Dispersions. *Advanced Materials*, **2020**, 32, e2003484	24	40
332	Twist Angle-Dependent Optical Responses in Controllably Grown WS2 Vertical Homojunctions. *Chemistry of Materials*, **2020**, 32, 9721-9729	9.6	8
331	Seamlessly Splicing Metallic Sn Mo S at MoS Edge for Enhanced Photoelectrocatalytic Performance in Microreactor. *Advanced Science*, **2020**, 7, 2002172	13.6	14
330	Covalently functionalized layered MoS supported Pd nanoparticles as highly active oxygen reduction electrocatalysts. *Nanoscale*, **2020**, 12, 18278-18288	7.7	6
329	Blue emission at atomically sharp 1D heterojunctions between graphene and h-BN. *Nature Communications*, **2020**, 11, 5359	17.4	11
328	Atomic mechanism of metal crystal nucleus formation in a single-walled carbon nanotube. *Nature Chemistry*, **2020**, 12, 921-928	17.6	25

327	Surface decoration accelerates the hydrogen evolution kinetics of a perovskite oxide in alkaline solution. *Energy and Environmental Science*, **2020**, 13, 4249-4257	35.4	16
326	Scanning Moir Fringe Method: A Superior Approach to Perceive Defects, Interfaces, and Distortion in 2D Materials. *ACS Nano*, **2020**, 14, 6034-6042	16.7	6
325	Epitaxial Synthesis of Monolayer PtSe Single Crystal on MoSe with Strong Interlayer Coupling. *ACS Nano*, **2019**, 13, 10929-10938	16.7	45
324	Core-Shell Pd@M (M=Ni, Cu, Co) Nanoparticles/Graphene Ensembles with High Mass Electrocatalytic Activity Toward the Oxygen Reduction Reaction. *Chemistry - A European Journal*, **2019**, 25, 11105-11113	4.8	11
323	Fermi level shift in carbon nanotubes by dye confinement. *Carbon*, **2019**, 149, 772-780	10.4	14
322	Transport evidence of asymmetric spin-orbit coupling in few-layer superconducting 1T-MoTe. *Nature Communications*, **2019**, 10, 2044	17.4	39
321	Synthesis and Transport Properties of Degenerate P-Type Nb-Doped WS2 Monolayers. *Chemistry of Materials*, **2019**, 31, 3534-3541	9.6	45
320	Ultrafast Monolayer In/Gr-WS-Gr Hybrid Photodetectors with High Gain. *ACS Nano*, **2019**, 13, 3269-3279	16.7	26
319	Isolation of Single-Wired Transition-Metal Monochalcogenides by Carbon Nanotubes. *Nano Letters*, **2019**, 19, 4845-4851	11.5	31
318	Wafer-scale and deterministic patterned growth of monolayer MoSvia vapor-liquid-solid method. *Nanoscale*, **2019**, 11, 16122-16129	7.7	40
317	Position and momentum mapping of vibrations in graphene nanostructures. *Nature*, **2019**, 573, 247-250	50.4	55
316	Engineering Monolayer 1T-MoS2 into a Bifunctional Electrocatalyst via Sonochemical Doping of Isolated Transition Metal Atoms. *ACS Catalysis*, **2019**, 9, 7527-7534	13.1	56
315	Synthesis of sub-millimeter single-crystal grains of aligned hexagonal boron nitride on an epitaxial Ni film. *Nanoscale*, **2019**, 11, 14668-14675	7.7	7
314	Layer Rotation-Angle-Dependent Excitonic Absorption in van der Waals Heterostructures Revealed by Electron Energy Loss Spectroscopy. *ACS Nano*, **2019**, 13, 9541-9550	16.7	17
313	Vapor Phase Selective Growth of Two-Dimensional Perovskite/WS Heterostructures for Optoelectronic Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 40503-40511	9.5	22
312	Nanoscale Vibrational Spectroscopy of Graphene by Large-q EELS. *Microscopy and Microanalysis*, **2019**, 25, 612-613	0.5	
311	InSe monolayer: synthesis, structure and ultra-high second-harmonic generation. *2D Materials*, **2018**, 5, 025019	5.9	59
310	Vapour-liquid-solid growth of monolayer MoS nanoribbons. *Nature Materials*, **2018**, 17, 535-542	27	185

309	Molecular Arrangements of Corannulene and Sumanene in Single-Walled Carbon Nanotubes. *ChemNanoMat*, **2018**, 4, 557-561	3.5	5
308	Atomically thin noble metal dichalcogenide: a broadband mid-infrared semiconductor. *Nature Communications*, **2018**, 9, 1545	17.4	267
307	A library of atomically thin metal chalcogenides. *Nature*, **2018**, 556, 355-359	50.4	812
306	Cation-mixing stabilized layered oxide cathodes for sodium-ion batteries. *Science Bulletin*, **2018**, 63, 376-384	18.8	50
305	Electron-Beam-Induced Synthesis of Hexagonal 1 H-MoSe from Square FeSe Decorated with Mo Adatoms. *Nano Letters*, **2018**, 18, 2016-2020	11.5	1
304	Extraordinary Interfacial Stitching between Single All-Inorganic Perovskite Nanocrystals. *ACS Applied Materials & Interfaces*, **2018**, 10, 5984-5991	9.5	22
303	Band gap modification and photoluminescence enhancement of graphene nanoribbon filled single-walled carbon nanotubes. *Nanoscale*, **2018**, 10, 2936-2943	7.7	13
302	Anisotropic Ordering in 1TPMolybdenum and Tungsten Ditelluride Layers Alloyed with Sulfur and Selenium. *ACS Nano*, **2018**, 12, 894-901	16.7	35
301	Auto-optimizing Hydrogen Evolution Catalytic Activity of ReS through Intrinsic Charge Engineering. *ACS Nano*, **2018**, 12, 4486-4493	16.7	77
300	Transition metal atom doping of the basal plane of MoS monolayer nanosheets for electrochemical hydrogen evolution. *Chemical Science*, **2018**, 9, 4769-4776	9.4	124
299	Chiral vector and metal catalyst-dependent growth kinetics of single-wall carbon nanotubes. *Carbon*, **2018**, 133, 283-292	10.4	11
298	Selective Growth of Two-Dimensional Heterostructures of Gallium Selenide on Monolayer Graphene and the Thickness Dependent p- and n-Type Nature. *ACS Applied Nano Materials*, **2018**, 1, 3293-3302	5.6	4
297	Carbon Nanomaterials: Unique TubeRing Interactions: Complexation of Single-Walled Carbon Nanotubes with Cycloparaphenyleneacetylenes (Small 26/2018). *Small*, **2018**, 14, 1870120	11	1
296	Evaluation of residual aberration in fifth-order geometrical aberration correctors. *Microscopy (Oxford, England)*, **2018**, 67, 156-163	1.3	18
295	Sulfur-Doped Graphene-Supported Nickel-Core Palladium-Shell Nanoparticles as Efficient Oxygen Reduction and Methanol Oxidation Electrocatalyst. *ACS Applied Energy Materials*, **2018**, 1, 3869-3880	6.1	18
294	Highly Efficient Mass Production of Boron Nitride Nanosheets via a Borate Nitridation Method. *Journal of Physical Chemistry C*, **2018**, 122, 17370-17377	3.8	12
293	Highly Depth-sensitive TEM Imaging of Graphene by using Monochromatic Electron Source at Low Accelerating Voltage. *Microscopy and Microanalysis*, **2018**, 24, 1610-1611	0.5	
292	A topologically substituted boron nitride hybrid aerogel for highly selective CO2 uptake. *Nano Research*, **2018**, 11, 6325-6335	10	12

291	Morphology Engineering in Monolayer MoS2-WS2 Lateral Heterostructures. *Advanced Functional Materials*, **2018**, 28, 1801568	15.6	52
290	Optical orientation and alignment of excitons in ensembles of inorganic perovskite nanocrystals. *Physical Review B*, **2018**, 97,	3.3	24
289	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	13	46
288	Hydrogen-Assisted Epitaxial Growth of Monolayer Tungsten Disulfide and Seamless Grain Stitching. *Chemistry of Materials*, **2018**, 30, 403-411	9.6	38
287	Revealing the Atomic Defects of WS2 Governing Its Distinct Optical Emissions. *Advanced Functional Materials*, **2018**, 28, 1704210	15.6	49
286	Low-Loss EELS Investigations on Atomically Thin MoxW(1-x)S2 Nanoflakes for Delving into Their Optoelectronic Properties. *Microscopy and Microanalysis*, **2018**, 24, 1576-1577	0.5	
285	Stable 1T Tungsten Disulfide Monolayer and Its Junctions: Growth and Atomic Structures. *ACS Nano*, **2018**, 12, 12080-12088	16.7	51
284	Measurement of Optical Excitations in Low-Dimensional Materials by Using a Monochromated Electron Source. *Microscopy and Microanalysis*, **2018**, 24, 1574-1575	0.5	
283	Surface-Mediated Aligned Growth of Monolayer MoS and In-Plane Heterostructures with Graphene on Sapphire. *ACS Nano*, **2018**, 12, 10032-10044	16.7	42
282	Direct Proof of a Defect-Modulated Gap Transition in Semiconducting Nanotubes. *Nano Letters*, **2018**, 18, 3920-3925	11.5	11
281	Unique Tube-Ring Interactions: Complexation of Single-Walled Carbon Nanotubes with Cycloparaphenyleneacetylenes. *Small*, **2018**, 14, e1800720	11	24
280	Two-dimensional PdSe 2 -Pd 2 Se 3 junctions can serve as nanowires. *2D Materials*, **2018**, 5, 035025	5.9	17
279	Synthesis of Highly Active Sub-Nanometer Pt@Rh Core-Shell Nanocatalyst via a Photochemical Route: Porous Titania Nanoplates as a Superior Photoactive Support. *Small*, **2017**, 13, 1603879	11	36
278	Single-atom detection of light elements: Imaging or spectroscopy?. *Ultramicroscopy*, **2017**, 180, 150-155	3.1	6
277	MoS monolayer catalyst doped with isolated Co atoms for the hydrodeoxygenation reaction. *Nature Chemistry*, **2017**, 9, 810-816	17.6	489
276	Chirality-dependent growth of single-wall carbon nanotubes as revealed inside nano-test tubes. *Nanoscale*, **2017**, 9, 7998-8006	7.7	17
275	Structural analysis and oxygen reduction reaction activity in bamboo-like nitrogen-doped carbon nanotubes containing localized nitrogen in nodal regions. *Carbon*, **2017**, 123, 99-105	10.4	10
274	Mechanistic insights into the photocatalytic properties of metal nanocluster/graphene ensembles. Examining the role of visible light in the reduction of 4-nitrophenol. *Nanoscale*, **2017**, 9, 9685-9692	7.7	22

273	Structural Distortions and Charge Density Waves in Iodine Chains Encapsulated inside Carbon Nanotubes. *Nano Letters*, **2017**, 17, 3694-3700	11.5	33
272	Perovskite Solar Cells Using Carbon Nanotubes Both as Cathode and as Anode. *Journal of Physical Chemistry C*, **2017**, 121, 25743-25749	3.8	69
271	Preferential S/Se occupation in an anisotropic ReSSe monolayer alloy. *Nanoscale*, **2017**, 9, 18275-18280	7.7	6
270	Chemical vapor deposition of trigonal prismatic NbS monolayers and 3R-polytype few-layers. *Nanoscale*, **2017**, 9, 16607-16611	7.7	46
269	Scalable van der Waals Heterojunctions for High-Performance Photodetectors. *ACS Applied Materials & Interfaces*, **2017**, 9, 36181-36188	9.5	23
268	Performance of Low-kV Aberration-corrected STEM with Delta-corrector and CFEG in Ultrahigh Vacuum Environment. *Microscopy and Microanalysis*, **2017**, 23, 468-469	0.5	2
267	A novel Pd2Se3 two-dimensional phase driven by interlayer fusion in layered PdSe2. *Microscopy and Microanalysis*, **2017**, 23, 1700-1701	0.5	1
266	Optical Spectroscopy at High Spatial Resolution with Fast Electrons. *Microscopy and Microanalysis*, **2017**, 23, 1528-1529	0.5	
265	High-quality monolayer superconductor NbSe grown by chemical vapour deposition. *Nature Communications*, **2017**, 8, 394	17.4	199
264	Towards atomically precise manipulation of 2D nanostructures in the electron microscope. *2D Materials*, **2017**, 4, 042004	5.9	52
263	Controllable Synthesis of Atomically Thin Type-II Weyl Semimetal WTe Nanosheets: An Advanced Electrode Material for All-Solid-State Flexible Supercapacitors. *Advanced Materials*, **2017**, 29, 1701909	24	81
262	Hybridization of Single Nanocrystals of CsPbBr and CsPbBr. *Journal of Physical Chemistry C*, **2017**, 121, 19490-19496	3.8	53
261	Low-Voltage TEM/STEM for Imaging and Spectroscopy of Low-Dimensional Materials. *Microscopy and Microanalysis*, **2017**, 23, 458-459	0.5	0
260	Single Atomically Sharp Lateral Monolayer p-n Heterojunction Solar Cells with Extraordinarily High Power Conversion Efficiency. *Advanced Materials*, **2017**, 29, 1701168	24	82
259	Novel Pd_{2}Se_{3} Two-Dimensional Phase Driven by Interlayer Fusion in Layered PdSe_{2}. *Physical Review Letters*, **2017**, 119, 016101	7.4	86
258	Large-Area and High-Quality 2D Transition Metal Telluride. *Advanced Materials*, **2017**, 29, 1603471	24	140
257	Metal-Semiconductor Phase-Transition in WSe Te Monolayer. *Advanced Materials*, **2017**, 29, 1603991	24	88
256	Extreme Nanowires: The Smallest Crystals in the Smallest Nanotubes **2016**, 397-398		

255	Individualized p-Doped Carbon Nanohorns. *Angewandte Chemie*, **2016**, 128, 10624-10628	3.6	2
254	Individualized p-Doped Carbon Nanohorns. *Angewandte Chemie - International Edition*, **2016**, 55, 10468-72	12.4	12
253	Direct Observation of Band Structure Modifications in Nanocrystals of CsPbBr Perovskite. *Nano Letters*, **2016**, 16, 7198-7202	11.5	68
252	Atomic Structure and Spectroscopy of Single Metal (Cr, V) Substitutional Dopants in Monolayer MoS. *ACS Nano*, **2016**, 10, 10227-10236	16.7	77
251	Controlled Synthesis of Atomically Thin 1T-TaS2 for Tunable Charge Density Wave Phase Transitions. *Chemistry of Materials*, **2016**, 28, 7613-7618	9.6	54
250	Gap measurements via low-loss EELS on atomically thin MoxW(1-x)S2 nanoflakes **2016**, 540-541		
249	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, 8175-83	16.4	53
248	Weaving of organic threads into a crystalline covalent organic framework. *Science*, **2016**, 351, 365-9	33.3	307
247	Single atom spectroscopy: Decreased scattering delocalization at high energy losses, effects of atomic movement and X-ray fluorescence yield. *Ultramicroscopy*, **2016**, 160, 239-246	3.1	10
246	Metal resist for extreme ultraviolet lithography characterized by scanning transmission electron microscopy. *Applied Physics Express*, **2016**, 9, 031601	2.4	7
245	Room-temperature Y-type emission of perylenes by encapsulation within single-walled carbon nanotubes. *Nanoscale*, **2016**, 8, 7834-9	7.7	8
244	Dynamic Structural Evolution of Metal–Metal Bonding Network in Monolayer WS2. *Chemistry of Materials*, **2016**, 28, 2308-2314	9.6	31
243	Photoluminescence Enhancement and Structure Repairing of Monolayer MoSe2 by Hydrohalic Acid Treatment. *ACS Nano*, **2016**, 10, 1454-61	16.7	137
242	Ultra High Energy Resolution EELS Mapping using Aberration-corrected Low-voltage STEM Equipped with Monochromator. *Microscopy and Microanalysis*, **2016**, 22, 962-963	0.5	1
241	Single Atom Spectroscopy in Low-Dimensional Materials using Low-voltage STEM. *Microscopy and Microanalysis*, **2016**, 22, 868-869	0.5	0
240	Discovery of pyridinic nitrogen defects and single atom spin in graphene **2016**, 386-387		1
239	Monochromated EELS to Probe the Local Optical Properties of Low-Dimensional Materials. *Microscopy and Microanalysis*, **2016**, 22, 950-951	0.5	
238	Performances of aberration-corrected monochromatic low-voltage analytical electron microscope **2016**, 338-339		

237	Improvement of TEM Spatial Resolution at Low Accelerating Voltages (15-30 kV) with Monochromator. *Microscopy and Microanalysis*, **2016**, 22, 982-983	0.5	
236	Growth and optical properties of Nb-doped WS2monolayers. *Applied Physics Express*, **2016**, 9, 071201	2.4	44
235	Enhancing the Infrared Response of Carbon Nanotubes From Oligo-Quaterthiophene Interactions. *Journal of Physical Chemistry C*, **2016**, 120, 28802-28807	3.8	15
234	Gentle transfer method for water- and acid/alkali-sensitive 2D materials for (S)TEM study. *APL Materials*, **2016**, 4, 116108	5.7	9
233	Resolution enhancement in transmission electron microscopy with 60-kV monochromated electron source. *Applied Physics Letters*, **2016**, 108, 013107	3.4	25
232	Electron energy loss spectroscopy of excitons in two-dimensional-semiconductors as a function of temperature. *Applied Physics Letters*, **2016**, 108, 163107	3.4	11
231	Distributions of hafnia and titania cores in EUV metal resists evaluated by scanning transmission electron microscopy and electron energy loss spectroscopy. *Applied Physics Express*, **2016**, 9, 111801	2.4	2
230	Confined linear carbon chains as a route to bulk carbyne. *Nature Materials*, **2016**, 15, 634-9	27	250
229	Postsynthesis of h-BN/Graphene Heterostructures Inside a STEM. *Small*, **2016**, 12, 252-9	11	20
228	Electron Spectroscopy of Single Quantum Objects To Directly Correlate the Local Structure to Their Electronic Transport and Optical Properties. *Nano Letters*, **2016**, 16, 3661-7	11.5	11
227	[3 + 2] cycloaddition reaction of azomethine ylides generated by thermal ring opening of aziridines onto carbon nanohorns. *RSC Advances*, **2016**, 6, 44782-44787	3.7	9
226	Atomic Resolution Imaging at an Ultralow Accelerating Voltage by a Monochromatic Transmission Electron Microscope. *Physical Review Letters*, **2016**, 117, 153004	7.4	15
225	Inelastic electron irradiation damage in hexagonal boron nitride. *Micron*, **2015**, 72, 21-7	2.3	21
224	NANOELECTRONICS. Epitaxial growth of a monolayer WSe2-MoS2 lateral p-n junction with an atomically sharp interface. *Science*, **2015**, 349, 524-8	33.3	811
223	DEVICE TECHNOLOGY. Phase patterning for ohmic homojunction contact in MoTe *Science*, **2015**, 349, 625-8	33.3	679
222	Influence of rhenium on the structural and optical properties of molybdenum disulfide. *Japanese Journal of Applied Physics*, **2015**, 54, 04DH05	1.4	17
221	Core-level spectroscopy to probe the oxidation state of single europium atoms. *Physical Review Letters*, **2015**, 114, 197602	7.4	9
220	Atomic-Resolution STEM Imaging of Graphene at Low Voltage of 30 kV with Resolution Enhancement by Using Large Convergence Angle. *Physical Review Letters*, **2015**, 114, 166102	7.4	39

219	Molecular interactions on single-walled carbon nanotubes revealed by high-resolution transmission microscopy. *Nature Communications*, **2015**, 6, 7732	17.4	28
218	Metallization of single-wall carbon nanotube thin films induced by gas phase iodination. *Carbon*, **2015**, 94, 768-774	10.4	34
217	Fabrication and optical probing of highly extended, ultrathin graphene nanoribbons in carbon nanotubes. *ACS Nano*, **2015**, 9, 5034-40	16.7	29
216	Temperature dependence of the reconstruction of zigzag edges in graphene. *ACS Nano*, **2015**, 9, 4786-95	16.7	53
215	Growth and Optical Properties of High-Quality Monolayer WS2 on Graphite. *ACS Nano*, **2015**, 9, 4056-63	16.7	129
214	Three-fold rotational defects in two-dimensional transition metal dichalcogenides. *Nature Communications*, **2015**, 6, 6736	17.4	149
213	Single-Layer ReS₂: Two-Dimensional Semiconductor with Tunable In-Plane Anisotropy. *ACS Nano*, **2015**, 9, 11249-57	16.7	286
212	Structural and Chemical Dynamics of Pyridinic-Nitrogen Defects in Graphene. *Nano Letters*, **2015**, 15, 7408-13	11.5	157
211	Single-atom electron energy loss spectroscopy of light elements. *Nature Communications*, **2015**, 6, 7943	17.4	41
210	Exploring the Single Atom Spin State by Electron Spectroscopy. *Physical Review Letters*, **2015**, 115, 206803	7.4	63
209	Doping of single-walled carbon nanotubes controlled via chemical transformation of encapsulated nickelocene. *Nanoscale*, **2015**, 7, 1383-91	7.7	47
208	Nickel clusters embedded in carbon nanotubes as high performance magnets. *Scientific Reports*, **2015**, 5, 15033	4.9	16
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