Masanori Koshino

List of Publications by Year
in descending order

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41 papers	2,055 citations	430874 18 h-index	345221 36 g-index
42 all docs	42 docs citations	42 times ranked	3117 citing authors

#	Article	IF	Citations
1	Atom-by-atom spectroscopy at graphene edge. Nature, 2010, 468, 1088-1090.	27.8	446
2	Imaging active topological defects in carbon nanotubes. Nature Nanotechnology, 2007, 2, 358-360.	31.5	338
3	Imaging of Single Organic Molecules in Motion. Science, 2007, 316, 853-853.	12.6	240
4	Structural and Chemical Dynamics of Pyridinic-Nitrogen Defects in Graphene. Nano Letters, 2015, 15, 7408-7413.	9.1	204
5	Analysis of the reactivity and selectivity of fullerene dimerization reactions at the atomic level. Nature Chemistry, 2010, 2, 117-124.	13.6	127
6	Heterogeneous nucleation of organic crystals mediated by single-molecule templates. Nature Materials, 2012, 11, 877-881.	27.5	112
7	Imaging the passage of a single hydrocarbon chain through a nanopore. Nature Nanotechnology, 2008, 3, 595-597.	31.5	55
8	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.	7.8	54
9	Stability and Spectroscopy of Single Nitrogen Dopants in Graphene at Elevated Temperatures. ACS Nano, 2014, 8, 11806-11815.	14.6	45
10	Transmission Electron Microscopy Imaging of Individual Functional Groups of Fullerene Derivatives. Physical Review Letters, 2006, 96, 088304.	7.8	43
11	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.	13.7	43
12	Imaging of Conformational Changes of Biotinylated Triamide Molecules Covalently Bonded to a Carbon Nanotube Surface. Journal of the American Chemical Society, 2008, 130, 7808-7809.	13.7	35
13	Unexpected Huge Dimerization Ratio in One-Dimensional Carbon Atomic Chains. Nano Letters, 2017, 17, 494-500.	9.1	35
14	Atomic Level Spatial Variations of Energy States along Graphene Edges. Nano Letters, 2014, 14, 6155-6159.	9.1	33
15	Structure and Local Chemical Properties of Boron-Terminated Tetravacancies in Hexagonal Boron Nitride. Physical Review Letters, 2015, 114, 075502.	7.8	33
16	Imaging of Aromatic Amide Molecules in Motion. Chemistry Letters, 2007, 36, 1208-1209.	1.3	31
17	Conformational Analysis of Single Perfluoroalkyl Chains by Single-Molecule Real-Time Transmission Electron Microscopic Imaging. Journal of the American Chemical Society, 2014, 136, 466-473.	13.7	26
18	Atomically Resolved Images of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mi>h</mml:mi></mml:msub></mml:math>Ice Single Crystals in the Solid Phase. Physical Review Letters, 2011, 106, 206101.	7.8	25

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19	DV-XÎ± calculation of electron energy-loss near edge-structures of 2,3,5,6-tetrafluoro-7,7,8,8-tetracyanoquinodimethane (F4TCNQ). Journal of Electron Spectroscopy and Related Phenomena, 2004, 135, 191-200.	1.7	18
20	Stability Due to Peripheral Halogenation in Phthalocyanine Complexes. Microscopy and Microanalysis, 2007, 13, 96-107.	0.4	16
21	Branching ratio and L2+L3 intensities of 3d-transition metals in phthalocyanines and the amine complexes. Micron, 2000, 31, 373-380.	2.2	15
22	Metal resist for extreme ultraviolet lithography characterized by scanning transmission electron microscopy. Applied Physics Express, 2016, 9, 031601.	2.4	13
23	Study of structures at the boundary and defects in organic thin films of perchlorocoronene by high-resolution and analytical transmission electron microscopy. Ultramicroscopy, 2010, 110, 1465-1474.	1.9	10
24	Atomic imaging and spectroscopy of low-dimensional materials with interrupted periodicities. Journal of Electron Microscopy, 2012, 61, 285-291.	0.9	9
25	Radiation damage analysis of 7,7,8,8,-tetracyanoquinodimethane (TCNQ) and 2,3,5,6,-tetrafluoro-7,7,8,8,-tetracyanoquinodimethane (F4TCNQ) by electron diffraction and electron energy loss spectroscopy. Micron, 2005, 36, 271-279.	2.2	7
26	Single Molecular Spectroscopy: Identification of Individual Fullerene Molecules. Physical Review Letters, 2014, 113, 185502.	7.8	7
27	Multiple 2D Phase Transformations in Monolayer Transition Metal Chalcogenides. Advanced Materials, 2022, 34, e2200643.	21.0	6
28	Single atom imaging and spectroscopy in nanostructured carbon materials. MRS Bulletin, 2012, 37, 36-38.	3.5	5
29	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	5
30	STEM imaging artifacts with three-fold astigmatism in monolayer transition metal dichalcogenides. Applied Physics Letters, 2020, 116, .	3.3	5
31	Deciphering the Intense Postgap Absorptions of Monolayer Transition Metal Dichalcogenides. ACS Nano, 2021, 15, 7783-7789.	14.6	4
32	Characterization of GrÃ„Tzel Dye on Tio2Particles by Transmission Electron Microscopy. Molecular Crystals and Liquid Crystals, 2004, 424, 95-102.	0.9	3
33	Multiple reaction pathways of metallofullerenes investigated by transmission electron microscopy. Dalton Transactions, 2014, 43, 7359-7365.	3.3	3
34	Structural Analysis of Bis(1,2-benzoquinonedioximato)platinum(II) Polymorphs Formed Epitaxially on Alkali Halides. Japanese Journal of Applied Physics, 2005, 44, 491-494.	1.5	2
35	Filling control of n-type and p-type dopant molecules in single-wall carbon nanotubes. Applied Physics Express, 2020, 13, 065003.	2.4	1
36	Thermal management function of graphene under cryogenic temperature. Carbon, 2021, 183, 970-976.	10.3	1

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37	HR-TEM of Carbon Network, Towards Individual C-C Bond Imaging. Microscopy and Microanalysis, 2009, 15, 122-123.	0.4	0
38	Passage of Single Hydrocarbon Chains Through a Defect of Carbon Nanotube. Microscopy and Microanalysis, 2009, 15, 1170-1171.	0.4	0
39	OM-III-4Low-voltage STEM-EELS for Single Atom- and Single Molecule- Analysis and Its Interpretations. Microscopy (Oxford, England), 2016, 65, i20-i20.	1.5	0
40	Structural Biology Using Electron Microscopy. , 2018, , 249-276.		0
41	Motional Analysis of a Single Organic Molecule by TEM Using Nanocarbon Materials: Scope of Atomic Level Imaging and Spectroscopy. Advances in Atom and Single Molecule Machines, 2013, , 29-37.	0.0	0