Kwanpyo Kim

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88 6,180 30 78 g-index

98 7,034 11.5 5.62 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
88	High-resolution EM of colloidal nanocrystal growth using graphene liquid cells. <i>Science</i> , 2012 , 336, 61-4	33.3	829
87	An atomic-resolution nanomechanical mass sensor. <i>Nature Nanotechnology</i> , 2008 , 3, 533-7	28.7	805
86	Grain boundary mapping in polycrystalline graphene. ACS Nano, 2011 , 5, 2142-6	16.7	522
85	Highly skin-conformal microhairy sensor for pulse signal amplification. <i>Advanced Materials</i> , 2015 , 27, 634-40	24	486
84	Raman spectroscopy study of rotated double-layer graphene: misorientation-angle dependence of electronic structure. <i>Physical Review Letters</i> , 2012 , 108, 246103	7.4	427
83	Multiply folded graphene. <i>Physical Review B</i> , 2011 , 83,	3.3	247
82	Electrical control of optical plasmon resonance with graphene. <i>Nano Letters</i> , 2012 , 12, 5598-602	11.5	224
81	Selective metal deposition at graphene line defects by atomic layer deposition. <i>Nature Communications</i> , 2014 , 5, 4781	17.4	196
80	Nanoparticle imaging. 3D structure of individual nanocrystals in solution by electron microscopy. <i>Science</i> , 2015 , 349, 290-5	33.3	183
79	Ultrahigh Surface Area Three-Dimensional Porous Graphitic Carbon from Conjugated Polymeric Molecular Framework. <i>ACS Central Science</i> , 2015 , 1, 68-76	16.8	177
78	Ripping graphene: preferred directions. <i>Nano Letters</i> , 2012 , 12, 293-7	11.5	172
77	3D motion of DNA-Au nanoconjugates in graphene liquid cell electron microscopy. <i>Nano Letters</i> , 2013 , 13, 4556-61	11.5	154
76	Graphene nanoribbons obtained by electrically unwrapping carbon nanotubes. ACS Nano, 2010 , 4, 1362	- 6 6.7	128
75	Structural and Electrical Investigation of C60-Graphene Vertical Heterostructures. <i>ACS Nano</i> , 2015 , 9, 5922-8	16.7	124
74	Large-area assembly of densely aligned single-walled carbon nanotubes using solution shearing and their application to field-effect transistors. <i>Advanced Materials</i> , 2015 , 27, 2656-62	24	104
73	Subnanometer vacancy defects introduced on graphene by oxygen gas. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2232-5	16.4	98
72	Atomically perfect torn graphene edges and their reversible reconstruction. <i>Nature Communications</i> , 2013 , 4, 2723	17.4	92

(2015-2010)

71	High-temperature stability of suspended single-layer graphene. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 302-304	2.5	80
70	Controlled aqueous synthesis of ultra-long copper nanowires for stretchable transparent conducting electrode. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1441-1447	7.1	65
69	Graphene nanopore with a self-integrated optical antenna. Nano Letters, 2014, 14, 5584-9	11.5	63
68	Graphene-templated directional growth of an inorganic nanowire. <i>Nature Nanotechnology</i> , 2015 , 10, 423-8	28.7	60
67	High-performance oxygen reduction and evolution carbon catalysis: From mechanistic studies to device integration. <i>Nano Research</i> , 2017 , 10, 1163-1177	10	50
66	Graphene veils and sandwiches. <i>Nano Letters</i> , 2011 , 11, 3290-4	11.5	49
65	Chemical Vapor-Deposited Hexagonal Boron Nitride as a Scalable Template for High-Performance Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2017 , 29, 2341-2347	9.6	46
64	Water-Mediated Photochemical Treatments for Low-Temperature Passivation of Metal-Oxide Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10403-12	9.5	46
63	Direct growth of aligned graphitic nanoribbons from a DNA template by chemical vapour deposition. <i>Nature Communications</i> , 2013 , 4, 2402	17.4	45
62	Reversible disorder-order transitions in atomic crystal nucleation. <i>Science</i> , 2021 , 371, 498-503	33.3	44
61	Epitaxially grown strained pentacene thin film on graphene membrane. Small, 2015, 11, 2037-43	11	43
60	Growth and Simultaneous Valleys Manipulation of Two-Dimensional MoSe-WSe Lateral Heterostructure. <i>ACS Nano</i> , 2017 , 11, 8822-8829	16.7	40
59	Nucleation and Growth of the HfO2 Dielectric Layer for Graphene-Based Devices. <i>Chemistry of Materials</i> , 2015 , 27, 5868-5877	9.6	37
58	Tuning nanoelectromechanical resonators with mass migration. <i>Nano Letters</i> , 2009 , 9, 3209-13	11.5	28
57	Intense Dark Exciton Emission from Strongly Quantum-Confined CsPbBr Nanocrystals. <i>Nano Letters</i> , 2020 , 20, 7321-7326	11.5	28
56	Atomic-scale imaging of few-layer black phosphorus and its reconstructed edge. <i>Journal Physics D:</i> Applied Physics, 2017 , 50, 084003	3	27
55	Ultrastiff, Strong, and Highly Thermally Conductive Crystalline Graphitic Films with Mixed Stacking Order. <i>Advanced Materials</i> , 2019 , 31, e1903039	24	27
54	Shape-Controlled, Self-Wrapped Carbon Nanotube 3D Electronics. <i>Advanced Science</i> , 2015 , 2, 1500103	13.6	27

53	Graphene edges and beyond: temperature-driven structures and electromagnetic properties. <i>ACS Nano</i> , 2015 , 9, 4669-74	16.7	25
52	Self-organized growth and self-assembly of nanostructures on 2D materials. <i>FlatChem</i> , 2017 , 5, 50-68	5.1	24
51	Ultrafast 27 GHz cutoff frequency in vertical WSe Schottky diodes with extremely low contact resistance. <i>Nature Communications</i> , 2020 , 11, 1574	17.4	23
50	Large-scale production of graphene nanoribbons from electrospun polymers. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17284-91	16.4	23
49	Strong Fermi-Level Pinning at Metal/n-Si(001) Interface Ensured by Forming an Intact Schottky Contact with a Graphene Insertion Layer. <i>Nano Letters</i> , 2017 , 17, 44-49	11.5	20
48	p-Channel field-effect transistors based on C60 doped with molybdenum trioxide. <i>ACS Applied Materials & Discrete Acs Applied</i>	9.5	19
47	One-Dimensional Assembly on Two-Dimensions: AuCN Nanowire Epitaxy on Graphene for Hybrid Phototransistors. <i>Nano Letters</i> , 2018 , 18, 6214-6221	11.5	19
46	Morphology-Conserving Non-Kirkendall Anion Exchange of Metal Oxide Nanocrystals. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9130-9134	16.4	17
45	The Hide-and-Seek of Grain Boundaries from Moir Pattern Fringe of Two-Dimensional Graphene. <i>Scientific Reports</i> , 2015 , 5, 12508	4.9	17
44	Nitrogen-Plasma-Treated Continuous Monolayer MoS for Improving Hydrogen Evolution Reaction. <i>ACS Omega</i> , 2019 , 4, 21509-21515	3.9	17
43	2D TMD Channel Transistors with ZnO Nanowire Gate for Extended Nonvolatile Memory Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 2004140	15.6	15
42	Nonvolatile and Neuromorphic Memory Devices Using Interfacial Traps in Two-Dimensional WSe/MoTe Stack Channel. <i>ACS Nano</i> , 2020 , 14, 12064-12071	16.7	15
41	Direct fabrication of zero- and one-dimensional metal nanocrystals by thermally assisted electromigration. <i>ACS Nano</i> , 2010 , 4, 2999-3004	16.7	14
40	Analysis of Defect Recovery in Reduced Graphene Oxide and Its Application as a Heater for Self-Healing Polymers. <i>ACS Applied Materials & Description of Mat</i>	9.5	13
39	Fabrication and Imaging of Monolayer Phosphorene with Preferred Edge Configurations via Graphene-Assisted Layer-by-Layer Thinning. <i>Nano Letters</i> , 2020 , 20, 559-566	11.5	11
38	EGeSe: A New Hexagonal Polymorph from Group IV-VI Monochalcogenides. <i>Nano Letters</i> , 2021 , 21, 430.	5- <u>4</u> 3§3	11
37	Direct imaging of rotating molecules anchored on graphene. <i>Nanoscale</i> , 2016 , 8, 13174-80	7.7	9
36	Light-Induced Anisotropic Morphological Dynamics of Black Phosphorus Membranes Visualized by Dark-Field Ultrafast Electron Microscopy. <i>ACS Nano</i> , 2020 , 14, 11383-11393	16.7	9

35	Optical phonons of SnSeS layered semiconductor alloys. Scientific Reports, 2020, 10, 11761	4.9	8
34	Versatile Solution-Processed OrganicIhorganic Hybrid Superlattices for Ultraflexible and Transparent High-Performance Optoelectronic Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 21037	28 ¹ 5 ^{5.6}	8
33	Precise Identification of Graphene's Crystal Structures by Removable Nanowire Epitaxy. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1302-1309	6.4	7
32	High Performance EGa2O3 Schottky Barrier Transistors with Large Work Function TMD Gate of NbS2 and TaS2. <i>Advanced Functional Materials</i> , 2021 , 31, 2010303	15.6	7
31	Photo-response in 2D metal chalcogenide-ferroelectric oxide heterostructure controlled by spontaneous polarization. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3724-3729	7.1	6
30	Universal Oriented van der Waals Epitaxy of 1D Cyanide Chains on Hexagonal 2D Crystals. <i>Advanced Science</i> , 2020 , 7, 1900757	13.6	6
29	Effect of Chemical Structure on Polymer-Templated Growth of Graphitic Nanoribbons. <i>ACS Nano</i> , 2015 , 9, 9043-9	16.7	5
28	Single-step synthesis of wrinkled MoSe2 thin films. Current Applied Physics, 2019, 19, 273-278	2.6	5
27	Mechanical removal of surface residues on graphene for TEM characterizations. <i>Applied Microscopy</i> , 2020 , 50, 28	1.1	4
26	Tailoring Single- and Double-Sided Fluorination of Bilayer Graphene via Substrate Interactions. <i>Nano Letters</i> , 2021 , 21, 891-898	11.5	4
25	Hydrogenated Graphene Improves Neuronal Network Maturation and Excitatory Transmission. <i>Advanced Biology</i> , 2021 , 5, e2000177		4
24	Direct imaging of structural disordering and heterogeneous dynamics of fullerene molecular liquid. Nature Communications, 2019 , 10, 4395	17.4	3
23	Nanoscale Molecular Building Blocks for Layer-by-Layer Assembly. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000522	4.6	3
22	Dramatic Reduction of Contact Resistance via Ultrathin LiF in Two-Dimensional MoS Field Effect Transistors. <i>Nano Letters</i> , 2021 , 21, 3503-3510	11.5	3
21	Single-Crystalline Metallic Films Induced by van der Waals Epitaxy on Black Phosphorus. <i>Chemistry of Materials</i> , 2021 , 33, 3593-3601	9.6	3
20	Evolution of defect formation during atomically precise desulfurization of monolayer MoS2. <i>Communications Materials</i> , 2021 , 2,	6	3
19	Anomalous Dimensionality-Driven Phase Transition of MoTe2 in Van der Waals Heterostructure. <i>Advanced Functional Materials</i> ,2107376	15.6	3
18	Ammonium Salts: New Synergistic Additive for Chemical Vapor Deposition Growth of MoS <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 12384-12390	6.4	3

17	One-Interlayer-Twisted Multilayer MoS 2 Moir Superlattices. Advanced Functional Materials, 2111529	15.6	2
16	Selective Growth and Robust Valley Polarization of Bilayer 3-MoS. <i>ACS Applied Materials & amp; Interfaces</i> , 2021 , 13, 57588-57596	9.5	2
15	Electronically Weak Coupled Bilayer MoS at Various Twist Angles via Folding. <i>ACS Applied Materials & Amp; Interfaces</i> , 2021 , 13, 22819-22827	9.5	2
14	Quaternary NAND Logic and Complementary Ternary Inverter with p-MoTe 2 /n-MoS 2 Heterostack Channel Transistors. <i>Advanced Functional Materials</i> , 2022 , 32, 2108737	15.6	2
13	Controlled synthesis of SnSxSe2\(\mathbb{N}\) nanoplate alloys via synergetic control of reactant activity and surface defect passivation control with surfactant and co-surfactant mixture. <i>Journal of Solid State Chemistry</i> , 2019 , 278, 120887	3.3	1
12	In-situ Observations of Pt Nanoparticle Growth at Atomic Resolution Using Graphene Liquid Cells and Cc Correction. <i>Microscopy and Microanalysis</i> , 2012 , 18, 1096-1097	0.5	1
11	TEM Imaging of Edges and Point Defects in Monolayer Phosphorene. <i>Microscopy and Microanalysis</i> , 2020 , 26, 2348-2350	0.5	O
10	Commensurate Assembly of C on Black Phosphorus for Mixed-Dimensional van der Waals Transistors <i>Small</i> , 2022 , e2105916	11	O
9	Damage-Free Charge Transfer Doping of 2D Transition Metal Dichalcogenide Channels by van der Waals Stamping of MoO and LiF <i>Small Methods</i> , 2022 , e2101073	12.8	0
8	Tuning of Thermoelectric Properties of MoSe Thin Films Under Helium Ion Irradiation <i>Nanoscale Research Letters</i> , 2022 , 17, 26	5	O
7	Unidirectional Alignment of AgCN Microwires on Distorted Transition Metal Dichalcogenide Crystals. ACS Applied Materials & amp; Interfaces, 2021, 13, 8727-8735	9.5	0
6	2D MoS2 Charge Injection Memory Transistors Utilizing Hetero-Stack SiO2/HfO2 Dielectrics and Oxide Interface Traps. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100074	6.4	O
5	TEM Imaging and Electron Diffraction of Vertically Stacked Graphene/h-BN with Fine Control of Twist Angle. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2114-2115	0.5	
4	Atomic-Resolution TEM Imaging of Phosphorene Protected by Graphene. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1696-1697	0.5	
3	B21-O-03The Identification of Grain Boundaries in Two-dimensional Graphene using Moire Pattern Fringe. <i>Microscopy (Oxford, England)</i> , 2015 , 64, i40.2-i40	1.3	
2	In-Situ TEM Observation of Metal Zn Nanocrystal Growth on ZnO Films. <i>Microscopy and Microanalysis</i> , 2009 , 15, 698-699	0.5	
1	Unidirectional Assembly on Distorted Two-Dimensional Crystal Substrates. <i>Microscopy and Microanalysis</i> , 2021 , 27, 892-893	0.5	