Kim Kisslinger

List of Publications by Year in descending order

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KIM KISSUNCED

#	Article	IF	CITATIONS
1	Highly selective plasma-activated copper catalysts for carbon dioxide reduction to ethylene. Nature Communications, 2016, 7, 12123.	12.8	896
2	Simultaneously Dual Modification of Niâ€Rich Layered Oxide Cathode for Highâ€Energy Lithiumâ€lon Batteries. Advanced Functional Materials, 2019, 29, 1808825.	14.9	430
3	Enhanced Carbon Dioxide Electroreduction to Carbon Monoxide over Defectâ€Rich Plasmaâ€Activated Silver Catalysts. Angewandte Chemie - International Edition, 2017, 56, 11394-11398.	13.8	180
4	Ultrahighâ€Rate and Longâ€Life Zinc–Metal Anodes Enabled by Selfâ€Accelerated Cation Migration. Advanced Energy Materials, 2021, 11, 2100982.	19.5	131
5	Large-Area Growth of Turbostratic Graphene on Ni(111) via Physical Vapor Deposition. Scientific Reports, 2016, 6, 19804.	3.3	103
6	LaTiO3/KTaO3 interfaces: A new two-dimensional electron gas system. APL Materials, 2015, 3, .	5.1	94
7	Resolving atomic-scale phase transformation and oxygen loss mechanism in ultrahigh-nickel layered cathodes for cobalt-free lithium-ion batteries. Matter, 2021, 4, 2013-2026.	10.0	69
8	Directed Self-Assembly of Block Copolymers for High Breakdown Strength Polymer Film Capacitors. ACS Applied Materials & Interfaces, 2016, 8, 7966-7976.	8.0	65
9	Enhancing Chemical Stability and Suppressing Ion Migration in CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells <i>via</i> Direct Backbone Attachment of Polyesters on Grain Boundaries. Chemistry of Materials, 2020, 32, 5104-5117.	6.7	64
10	Atomic Structure Evolution of Pt–Co Binary Catalysts: Single Metal Sites versus Intermetallic Nanocrystals. Advanced Materials, 2021, 33, e2106371.	21.0	62
11	Hierarchical nickel valence gradient stabilizes high-nickel content layered cathode materials. Nature Communications, 2021, 12, 2350.	12.8	59
12	Enhanced Carbon Dioxide Electroreduction to Carbon Monoxide over Defectâ€Rich Plasmaâ€Activated Silver Catalysts. Angewandte Chemie, 2017, 129, 11552-11556.	2.0	58
13	Image quality and pattern transfer in directed self assembly with block-selective atomic layer deposition. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, .	1.2	52
14	Three-dimensional electroactive ZnO nanomesh directly derived from hierarchically self-assembled block copolymer thin films. Nanoscale, 2019, 11, 9533-9546.	5.6	51
15	Light–matter coupling in large-area van der Waals superlattices. Nature Nanotechnology, 2022, 17, 182-189.	31.5	49
16	Evaluating the accuracy of common γ-Al2O3 structure models by selected area electron diffraction from high-quality crystalline γ-Al2O3. Acta Materialia, 2020, 182, 257-266.	7.9	48
17	High-Quality AZO/Au/AZO Sandwich Film with Ultralow Optical Loss and Resistivity for Transparent Flexible Electrodes. ACS Applied Materials & Interfaces, 2018, 10, 16160-16168.	8.0	45
18	Resilient three-dimensional ordered architectures assembled from nanoparticles by DNA. Science Advances, 2021, 7, .	10.3	45

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19	Revisiting the "In-clustering―question in InGaN through the use of aberration-corrected electron microscopy below the knock-on threshold. Applied Physics Letters, 2013, 102, .	3.3	43
20	Atomic-Scale Observation of O1 Faulted Phase-Induced Deactivation of LiNiO ₂ at High Voltage. Nano Letters, 2021, 21, 3657-3663.	9.1	43
21	Operando Grazing Incidence Small-Angle X-ray Scattering/X-ray Diffraction of Model Ordered Mesoporous Lithium-Ion Battery Anodes. ACS Nano, 2017, 11, 1443-1454.	14.6	42
22	Magnetic Hydrogels from Alkyne/Cobalt Carbonyl-Functionalized ABA Triblock Copolymers. Journal of the American Chemical Society, 2016, 138, 4616-4625.	13.7	40
23	Microstructure and microchemistry of flash sintered K _{0.5} Na _{0.5} NbO ₃ . Journal of the Ceramic Society of Japan, 2016, 124, 321-328.	1.1	39
24	Ultrahigh Elastic Strain Energy Storage in Metal-Oxide-Infiltrated Patterned Hybrid Polymer Nanocomposites. Nano Letters, 2017, 17, 7416-7423.	9.1	38
25	Chemomechanically Stable Ultrahigh-Ni Single-Crystalline Cathodes with Improved Oxygen Retention and Delayed Phase Degradations. Nano Letters, 2021, 21, 9797-9804.	9.1	38
26	Direct fabrication of high aspect-ratio metal oxide nanopatterns via sequential infiltration synthesis in lithographically defined SU-8 templates. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, 06F201.	1.2	37
27	Ordering Pathway of Block Copolymers under Dynamic Thermal Gradients Studied by <i>in Situ</i> GISAXS. Macromolecules, 2016, 49, 8633-8642.	4.8	34
28	Silicate deposition during decomposition of cyanobacteria may promote export of picophytoplankton to the deep ocean. Nature Communications, 2014, 5, 4143.	12.8	33
29	Electrical and structural properties of ZnO synthesized via infiltration of lithographically defined polymer templates. Applied Physics Letters, 2015, 107, .	3.3	31
30	Interfaces between hexagonal and cubic oxides and their structure alternatives. Nature Communications, 2017, 8, 1474.	12.8	31
31	Microscopic relaxation channels in materials for superconducting qubits. Communications Materials, 2021, 2, .	6.9	31
32	Advancing next generation nanolithography with infiltration synthesis of hybrid nanocomposite resists. Journal of Materials Chemistry C, 2019, 7, 8803-8812.	5.5	30
33	Designing Nanoplatelet Alloy/Nafion Catalytic Interface for Optimization of PEMFCs: Performance, Durability, and CO Resistance. ACS Catalysis, 2019, 9, 1446-1456.	11.2	29
34	Experimental Study of the Detection Limit in Dual-Gate Biosensors Using Ultrathin Silicon Transistors. ACS Nano, 2017, 11, 7142-7147.	14.6	28
35	Suppression of Carbon Monoxide Poisoning in Proton Exchange Membrane Fuel Cells via Gold Nanoparticle/Titania Ultrathin Film Heterogeneous Catalysts. ACS Applied Energy Materials, 2019, 2, 3479-3487.	5.1	28
36	Bi-continuous pattern formation in thin films <i>via</i> solid-state interfacial dealloying studied by multimodal characterization. Materials Horizons, 2019, 6, 1991-2002.	12.2	28

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37	Multi-electron transfer enabled by topotactic reaction in magnetite. Nature Communications, 2019, 10, 1972.	12.8	28
38	Blue emission of Eu2+-doped translucent alumina. Journal of Luminescence, 2015, 168, 297-303.	3.1	25
39	Effects of Residual Solvent Molecules Facilitating the Infiltration Synthesis of ZnO in a Nonreactive Polymer. Chemistry of Materials, 2017, 29, 4535-4545.	6.7	24
40	Dissolution of Pt during Oxygen Reduction Reaction Produces Pt Nanoparticles. Analytical Chemistry, 2017, 89, 12618-12621.	6.5	24
41	Enhanced Hybridization and Nanopatterning via Heated Liquid-Phase Infiltration into Self-Assembled Block Copolymer Thin Films. ACS Applied Materials & Interfaces, 2020, 12, 1444-1453.	8.0	23
42	Hybrid Ligand Exchange of Cu(In,Ga)S ₂ Nanoparticles for Carbon Impurity Removal in Solution-Processed Photovoltaics. Chemistry of Materials, 2020, 32, 5091-5103.	6.7	23
43	Applying Configurational Complexity to the 2D Ruddlesden–Popper Crystal Structure. ACS Nano, 2020, 14, 13030-13037.	14.6	21
44	Comparison of Hafnium Dioxide and Zirconium Dioxide Grown by Plasma-Enhanced Atomic Layer Deposition for the Application of Electronic Materials. Crystals, 2020, 10, 136.	2.2	21
45	Photoelectrochemical water splitting with a SrTiO ₃ :Nb/SrTiO ₃ n ⁺ –n homojunction structure. Physical Chemistry Chemical Physics, 2017, 19, 2760-2767.	2.8	20
46	Environmentally Friendly Zr-Based Conversion Nanocoatings for Corrosion Inhibition of Metal Surfaces Evaluated by Multimodal X-ray Analysis. ACS Applied Nano Materials, 2019, 2, 1920-1929.	5.0	20
47	Effect of Molecular Weight and Layer Thickness on the Dielectric Breakdown Strength of Neat and Homopolymer Swollen Lamellar Block Copolymer Films. ACS Applied Polymer Materials, 2020, 2, 3072-3083.	4.4	20
48	Green phosphorescence of zinc sulfide optical ceramics. Optical Materials Express, 2014, 4, 1140.	3.0	19
49	Transparent <scp><scp>Y</scp></scp> ₃ <scp>Al</scp> ₅ <scp>O</scp> <scp>Li</scp> , <scp>Ce</scp> Ceramics for Thermal Neutron Detection. Journal of the American Ceramic Society, 2013, 96, 1067-1069.	_{12<!--</td--><td>sub>: 18</td>}	sub>: 18
50	Evolution of Wurtzite ZnO Films on Cubic MgO (001) Substrates: A Structural, Optical, and Electronic Investigation of the Misfit Structures. ACS Applied Materials & Interfaces, 2014, 6, 13823-13832.	8.0	18
51	Ultralow Dark Currents in Avalanche Amorphous Selenium Photodetectors Using Solution-Processed Quantum Dot Blocking Layer. ACS Photonics, 2020, 7, 1367-1374.	6.6	18
52	Approaching the Practical Conductivity Limits of Aerosol Jet Printed Silver. ACS Applied Materials & Interfaces, 2020, 12, 29684-29691.	8.0	16
53	Wurtzite ZnO (001) films grown on cubic MgO (001) with bulk-like opto-electronic properties. Applied Physics Letters, 2011, 99, 141917.	3.3	15
54	Emergent flat band electronic structure in a VSe2/Bi2Se3 heterostructure. Communications Materials, 2021, 2, .	6.9	15

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55	Phase Behavior of Alkyne-Functionalized Styrenic Block Copolymer/Cobalt Carbonyl Adducts and <i>in Situ</i> Formation of Magnetic Nanoparticles by Thermolysis. Macromolecules, 2016, 49, 853-865.	4.8	14
56	Large Metallic Vanadium Disulfide Ultrathin Flakes for Spintronic Circuits and Quantum Computing Devices. ACS Applied Nano Materials, 2019, 2, 3684-3694.	5.0	14
57	Growth of epitaxial CdTe thin films on amorphous substrates using single crystal graphene buffer. Carbon, 2019, 144, 519-524.	10.3	14
58	Resolving Triblock Terpolymer Morphologies by Vapor-Phase Infiltration. Chemistry of Materials, 2020, 32, 5309-5316.	6.7	14
59	Tunable surface acoustic wave device using semiconducting MgZnO and piezoelectric NiZnO dual-layer structure on glass. Smart Materials and Structures, 2018, 27, 085025.	3.5	12
60	Light-Activated Hybrid Nanocomposite Film for Water and Oxygen Sensing. ACS Applied Materials & Interfaces, 2018, 10, 31745-31754.	8.0	12
61	Water as the Solvent in the Stober Process for Forming Ultrafine Silica Shells on Magnetite Nanoparticles. ACS Sustainable Chemistry and Engineering, 2019, 7, 15578-15584.	6.7	12
62	Nano-engineering the material structure of preferentially oriented nano-graphitic carbon for making high-performance electrochemical micro-sensors. Scientific Reports, 2020, 10, 9444.	3.3	11
63	Orientational domains in metalorganic chemical vapor deposited CdTe(111) film on cube-textured Ni. Thin Solid Films, 2013, 531, 217-221.	1.8	10
64	Origin and Suppression of Beam Damage-Induced Oxygen-K Edge Artifact from γ-Al2O3 using Cryo-EELS. Ultramicroscopy, 2020, 219, 113127.	1.9	10
65	Fluorinated Iron and Cobalt Phthalocyanine Nanowire Chemiresistors for Environmental Gas Monitoring at Parts-per-Billion Levels. ACS Applied Nano Materials, 2022, 5, 4688-4699.	5.0	10
66	Solution Processed Fabrication of Se–Te Alloy Thin Films for Application in PV Devices. ACS Applied Energy Materials, 2022, 5, 3275-3281.	5.1	10
67	Radiation damage by light- and heavy-ion bombardment of single-crystal LiNbO_3. Optical Materials Express, 2015, 5, 1071.	3.0	9
68	Design nanoporous metal thin films <i>via</i> solid state interfacial dealloying. Nanoscale, 2021, 13, 17725-17736.	5.6	9
69	In Situ Growth of Crystalline and Polymerâ€Incorporated Amorphous ZIFs in Polybenzimidazole Achieving Hierarchical Nanostructures for Carbon Capture. Small, 2022, 18, e2201982.	10.0	9
70	Highly Active and Stable Carbon Nanosheets Supported Iron Oxide for Fischerâ€Tropsch to Olefins Synthesis. ChemCatChem, 2019, 11, 1625-1632.	3.7	8
71	Conformal Coating of Freestanding Particles by Vaporâ€Phase Infiltration. Advanced Materials Interfaces, 2020, 7, 2001323	3.7	8
72	Reusing Face Covering Masks: Probing the Impact of Heat Treatment. ACS Sustainable Chemistry and Engineering, 2021, 9, 13545-13558.	6.7	8

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73	Enabling fine-grain free 2-micron thick CISe/CICSe film fabrication <i>via</i> a non-hydrazine based solution processing route. Materials Advances, 2022, 3, 3293-3302.	5.4	8
74	Interface structures of inclined ZnO thin film on (0â€⁻1â€⁻1)-MgO substrate with bulk-like optical properties. Applied Surface Science, 2020, 509, 144781.	6.1	7
75	Unraveling the Formation Mechanism of a Hybrid Zr-Based Chemical Conversion Coating with Organic and Copper Compounds for Corrosion Inhibition. ACS Applied Materials & Interfaces, 2021, 13, 5518-5528.	8.0	7
76	Field-assisted sintering and phase transition of ZnS-CaLa2S4 composite ceramics. Journal of the European Ceramic Society, 2017, 37, 4741-4749.	5.7	6
77	Templated Mesoporous Silica Outer Shell for Controlled Silver Release of a Magnetically Recoverable and Reusable Nanocomposite for Water Disinfection. ACS Applied Materials & Interfaces, 2021, 13, 47972-47986.	8.0	6
78	Dry heat sterilization as a method to recycle N95 respirator masks: The importance of fit. PLoS ONE, 2022, 17, e0257963.	2.5	6
79	Selective sequential infiltration synthesis of ZnO in the liquid crystalline phase of silicon-containing rod-coil block copolymers. Nanoscale, 2022, 14, 1807-1813.	5.6	6
80	Mechanisms of Interface Cleaning in Heterostructures Made from Polymerâ€Contaminated Graphene. Small, 2022, 18, e2201248.	10.0	6
81	Nanocomposite liposomes for pH-controlled porphyrin release into human prostate cancer cells. RSC Advances, 2020, 10, 17094-17100.	3.6	5
82	Solution Phase Growth and Ion Exchange in Microassemblies of Lead Chalcogenide Nanoparticles. ACS Omega, 2021, 6, 21350-21358.	3.5	5
83	Reduced Stochastic Resistive Switching in Organicâ€Inorganic Hybrid Memristors by Vaporâ€Phase Infiltration. Advanced Electronic Materials, 2022, 8, .	5.1	5
84	Characterization of V-shaped Defects in 4H-SiC Homoepitaxial Layers. Journal of Electronic Materials, 2015, 44, 1293-1299.	2.2	4
85	Magnetically Recoverable and Reusable Titanium Dioxide Nanocomposite for Water Disinfection. Journal of Marine Science and Engineering, 2021, 9, 943.	2.6	4
86	Characterization of Materials Used as Face Coverings for Respiratory Protection. ACS Applied Materials & Interfaces, 2021, 13, 47996-48008.	8.0	4
87	Electron-beam-evaporated thin films of hafnium dioxide for fabricating electronic devices. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2015, 33, 042001.	1.2	3
88	Characterization of selective etching and patterning by sequential light- and heavy-ion irradiation of LiNbO3. Optical Materials, 2015, 46, 1-5.	3.6	3
89	Interface and optical properties of Zn1â^'xMgxO films with Mg content of more than 70% grown on the (12Ì,,10)-ZnO substrates. AIP Advances, 2021, 11, .	1.3	3
90	Thin-film synthesis of superconductor-on-insulator A15 vanadium silicide. Scientific Reports, 2021, 11, 2358.	3.3	3

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91	Exploring the Spatial Control of Topotactic Phase Transitions Using Vertically Oriented Epitaxial Interfaces. Nano-Micro Letters, 2022, 14, 2.	27.0	3
92	A method to determine fault vectors in 4H-SiC from stacking sequences observed on high resolution transmission electron microscopy images. Journal of Applied Physics, 2014, 116, 104905.	2.5	2
93	Stacking Fault Formation via 2D Nucleation in PVT Grown 4H-SiC. Materials Science Forum, 0, 821-823, 85-89.	0.3	2
94	Cathodoluminescence as an effective probe of carrier transport and deep level defects in droop-mitigating InGaN/GaN quantum well heterostructures. Applied Physics Express, 2019, 12, 034003.	2.4	2
95	Atomic Layer Deposition of Nanolayered Carbon Films. Journal of Carbon Research, 2021, 7, 67.	2.7	2
96	Electrically pumped epitaxially regrown GaSbâ€based typeâ€l quantum well surface emitting lasers with buried highâ€indexâ€contrast photonic crystal layer Physica Status Solidi - Rapid Research Letters, 0, , 2100425.	2.4	2
97	Fabrication of field-effect transistors with transfer-free nanostructured carbon as the semiconducting channel material. Nanotechnology, 2020, 31, 485203.	2.6	2
98	PbI ₂ Nanocrystal Growth by Atomic Layer Deposition from Pb(tmhd) ₂ and HI. Chemistry of Materials, 2022, 34, 2553-2561.	6.7	2
99	Characterization of Hazy Morphology on AlInP/GaAs Epitaxial Wafers Grown by Organometallic Vapor-Phase Epitaxy. Journal of Electronic Materials, 2021, 50, 3006-3012.	2.2	1
100	Investigating the Potential of Amine-Thiol Solvent System for High-Efficiency CuInSe2 Devices. , 2020, , .		1
101	Solution-Processed Ceria Interface Layer for Enhancing Performance of Avalanche Amorphous-Selenium Photodetectors. , 2020, , .		1
102	Study of Defect Structures in 6H-SiC a/m-Plane Pseudofiber Crystals Grown by Hot-Wall CVD Epitaxy. Journal of Electronic Materials, 2016, 45, 2078-2086.	2.2	0