

Chong Min Koo

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93
papers

6,455
citations

33
h-index

80
g-index

97
ext. papers

8,547
ext. citations

10.2
avg, IF

6.36
L-index

#	Paper	IF	Citations
93	Electromagnetic interference shielding with 2D transition metal carbides (MXenes). <i>Science</i> , 2016 , 353, 1137-40	33.3	2432
92	Anomalous absorption of electromagnetic waves by 2D transition metal carbonitride TiCNT (MXene). <i>Science</i> , 2020 , 369, 446-450	33.3	362
91	Large-area reduced graphene oxide thin film with excellent thermal conductivity and electromagnetic interference shielding effectiveness. <i>Carbon</i> , 2015 , 94, 494-500	10.4	289
90	Beyond TiCT: MXenes for Electromagnetic Interference Shielding. <i>ACS Nano</i> , 2020 , 14, 5008-5016	16.7	218
89	Electromagnetic Shielding of Monolayer MXene Assemblies. <i>Advanced Materials</i> , 2020 , 32, e1906769	24	207
88	2D MXenes for Electromagnetic Shielding: A Review. <i>Advanced Functional Materials</i> , 2020 , 30, 2000883	15.6	192
87	Mussel-inspired block copolymer lithography for low surface energy materials of teflon, graphene, and gold. <i>Advanced Materials</i> , 2011 , 23, 5618-22	24	167
86	Ultrahigh electrically and thermally conductive self-aligned graphene/polymer composites using large-area reduced graphene oxides. <i>Carbon</i> , 2016 , 101, 120-128	10.4	165
85	Ultralight and Mechanically Robust TiCT Hybrid Aerogel Reinforced by Carbon Nanotubes for Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38046-38054	9.5	146
84	Anisotropic MXene Aerogels with a Mechanically Tunable Ratio of Electromagnetic Wave Reflection to Absorption. <i>Advanced Optical Materials</i> , 2019 , 7, 1900267	8.1	138
83	High through-plane thermal conduction of graphene nanoflake filled polymer composites melt-processed in an L-shape kinked tube. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15256-62	9.5	123
82	Enhanced Terahertz Shielding of MXenes with Nano-Metamaterials. <i>Advanced Optical Materials</i> , 2018 , 6, 1701076	8.1	100
81	Shape-Adaptable 2D Titanium Carbide (MXene) Heater. <i>ACS Nano</i> , 2019 , 13, 6835-6844	16.7	99
80	Sulfur doped graphene/polystyrene nanocomposites for electromagnetic interference shielding. <i>Composite Structures</i> , 2015 , 133, 1267-1275	5.3	98
79	Biomass-Derived Thermally Annealed Interconnected Sulfur-Doped Graphene as a Shield against Electromagnetic Interference. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9361-9	9.5	98
78	Sulfur-doped graphene laminates for EMI shielding applications. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9802-9810	7.1	91
77	2D Transition Metal Carbides (MXenes): Applications as an Electrically Conducting Material. <i>Advanced Materials</i> , 2020 , 32, e2002159	24	79

76	Mussel Inspired Highly Aligned TiCT MXene Film with Synergistic Enhancement of Mechanical Strength and Ambient Stability. <i>ACS Nano</i> , 2020 , 14, 11722-11732	16.7	78
75	Density-tunable lightweight polymer composites with dual-functional ability of efficient EMI shielding and heat dissipation. <i>Nanoscale</i> , 2017 , 9, 13432-13440	7.7	77
74	Highly sensitive electrochemical sensor based on environmentally friendly biomass-derived sulfur-doped graphene for cancer biomarker detection. <i>Sensors and Actuators B: Chemical</i> , 2017 , 241, 716-724	8.5	66
73	Hybrid ionogel electrolytes for high temperature lithium batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2226-2233	13	64
72	Nonpolar Organic Dispersion of 2D TiCT MXene Flakes Simultaneous Interfacial Chemical Grafting and Phase Transfer Method. <i>ACS Nano</i> , 2019 , 13, 13818-13828	16.7	63
71	Nafion-stabilized two-dimensional transition metal carbide (Ti ₃ C ₂ T _x MXene) as a high-performance electrochemical sensor for neurotransmitter. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 79, 338-344	6.3	55
70	Lithium Dendrite Suppression with UV-Curable Polysilsesquioxane Separator Binders. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12852-8	9.5	49
69	Binder-less chemical grafting of SiO ₂ nanoparticles onto polyethylene separators for lithium-ion batteries. <i>Journal of Membrane Science</i> , 2019 , 573, 621-627	9.6	49
68	Novel polysilsesquioxane hybrid polymer electrolytes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1277-1283	13	48
67	Electric Actuation of Nanostructured Thermoplastic Elastomer Gels with Ultralarge Electrostriction Coefficients. <i>Advanced Functional Materials</i> , 2011 , 21, 3242-3249	15.6	44
66	Improving oxidation stability of 2D MXenes: synthesis, storage media, and conditions. <i>Nano Convergence</i> , 2021 , 8, 9	9.2	44
65	High-strain air-working soft transducers produced from nanostructured block copolymer ionomer/silicate/ionic liquid nanocomposite membranes. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 3784 ^{7.1}	7.1	42
64	Precision Interface Engineering of an Atomic Layer in Bulk BiTe Alloys for High Thermoelectric Performance. <i>ACS Nano</i> , 2019 , 13, 7146-7154	16.7	41
63	Novel sulfonated styrenic pentablock copolymer/silicate nanocomposite membranes with controlled ion channels and their IPMC transducers. <i>Sensors and Actuators B: Chemical</i> , 2012 , 162, 369-376 ^{8.5}	8.5	37
62	Synthesis of Multifunctional Electrically Tunable Fluorine-Doped Reduced Graphene Oxide at Low Temperatures. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24179-24189	9.5	37
61	Highly enhanced electromechanical properties of PVDF-TrFE/SWCNT nanocomposites using an efficient polymer compatibilizer. <i>Composites Science and Technology</i> , 2018 , 157, 21-29	8.6	33
60	Low percolation 3D Cu and Ag shell network composites for EMI shielding and thermal conduction. <i>Composites Science and Technology</i> , 2019 , 182, 107778	8.6	33
59	Lithium ion capacitors fabricated with polyethylene oxide-functionalized polysilsesquioxane hybrid ionogel electrolytes. <i>Electrochimica Acta</i> , 2016 , 188, 582-588	6.7	32

58	Highly anisotropic Cu oblate ellipsoids incorporated polymer composites with excellent performance for broadband electromagnetic interference shielding. <i>Composites Science and Technology</i> , 2017 , 144, 57-62	8.6	30
57	Facilitated Ion Transport in Smectic Ordered Ionic Liquid Crystals. <i>Advanced Materials</i> , 2016 , 28, 9301-9307	7.7	29
56	Multifunctional Mesoporous Ionic Gels and Scaffolds Derived from Polyhedral Oligomeric Silsesquioxanes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3616-3623	9.5	27
55	FeSiAl/metal core shell hybrid composite with high-performance electromagnetic interference shielding. <i>Composites Science and Technology</i> , 2019 , 172, 66-73	8.6	26
54	Hybrid ionogel electrolytes with POSS epoxy networks for high temperature lithium ion capacitors. <i>Solid State Ionics</i> , 2017 , 309, 27-32	3.3	24
53	Segregated reduced graphene oxide polymer composite as a high performance electromagnetic interference shield. <i>Research on Chemical Intermediates</i> , 2018 , 44, 4707-4719	2.8	23
52	High-voltage ionic liquid electrolytes based on ether functionalized pyrrolidinium for electric double-layer capacitors. <i>Electrochimica Acta</i> , 2016 , 222, 1847-1852	6.7	22
51	Blue membranes: Sulfonated copper(II) phthalocyanine tetrasulfonic acid based composite membranes for DMFC and low relative humidity PEMFC. <i>Journal of Membrane Science</i> , 2016 , 502, 1-10	9.6	19
50	Polymer-Laminated TiCT MXene Electrodes for Transparent and Flexible Field-Driven Electronics. <i>ACS Nano</i> , 2021 , 15, 8940-8952	16.7	19
49	Ionic polymer actuator based on anion-conducting methylated ether-linked polybenzimidazole. <i>Sensors and Actuators B: Chemical</i> , 2015 , 214, 43-49	8.5	18
48	Multidimensional TiCT MXene Architectures Interfacial Electrochemical Self-Assembly. <i>ACS Nano</i> , 2021 , 15, 10058-10066	16.7	18
47	Boronic ionogel electrolytes to improve lithium transport for Li-ion batteries. <i>Electrochimica Acta</i> , 2016 , 215, 36-41	6.7	16
46	Control of hard block segments of methacrylate-based triblock copolymers for enhanced electromechanical performance. <i>Polymer Chemistry</i> , 2016 , 7, 7391-7399	4.9	16
45	Hybrid ionogels derived from polycationic polysilsesquioxanes for lithium ion batteries. <i>Polymer</i> , 2017 , 117, 160-166	3.9	15
44	Nonlinear Frameworks for Reversible and Pluripotent Wetting on Topographic Surfaces. <i>Advanced Materials</i> , 2017 , 29, 1605078	24	15
43	Ion conduction behaviour in chemically crosslinked hybrid ionogels: effect of free-dangling oligoethyleneoxides. <i>RSC Advances</i> , 2015 , 5, 94241-94247	3.7	15
42	Alternating-Current MXene Polymer Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2001224	15.6	15
41	Towards Watt-scale hydroelectric energy harvesting by Ti3C2Tx-based transpiration-driven electrokinetic power generators. <i>Energy and Environmental Science</i> ,	35.4	14

40	Tunable polymer actuators via a simple and versatile blending approach. <i>Sensors and Actuators B: Chemical</i> , 2012 , 174, 547-554	8.5	13
39	Electromagnetic Interference Shielding: Electromagnetic Shielding of Monolayer MXene Assemblies (Adv. Mater. 9/2020). <i>Advanced Materials</i> , 2020 , 32, 2070064	24	12
38	Engineering Aggregation-Resistant MXene Nanosheets As Highly Conductive and Stable Inks for All-Printed Electronics. <i>Advanced Functional Materials</i> , 2021 , 31, 2010897	15.6	12
37	Optimum compatibilization for the nonflammability of thermoplasticized crosslinked polyethylene/metal hydroxides composites with a compatibilizer. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 2814-2823	2.9	11
36	Continuous supercritical decrosslinking extrusion process for recycling of crosslinked polyethylene waste. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	11
35	Mechanism and Kinetics of Oxidation Reaction of Aqueous TiCT Suspensions at Different pHs and Temperatures. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22855-22865	9.5	11
34	Kinetically controlled low-temperature solution-processed mesoporous rutile TiO ₂ for high performance lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 80, 667-676	6.3	10
33	Enhanced absorption of electromagnetic waves in Ti ₃ C ₂ T MXene films with segregated polymer inclusions. <i>Composites Science and Technology</i> , 2021 , 213, 108878	8.6	8
32	Shaping micro-clusters via inverse jamming and topographic close-packing of microbombs. <i>Nature Communications</i> , 2017 , 8, 721	17.4	7
31	Understanding the enhanced electrochemical performance of TEMPO derivatives in non-aqueous lithium ion redox flow batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 80, 545-550	6.3	7
30	Sulfonated Copper Phthalocyanine/Sulfonated Polysulfone Composite Membrane for Ionic Polymer Actuators with High Power Density and Fast Response Time. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29063-29070	9.5	7
29	High-performance polymer ionomer/ionic liquid membrane IPMC actuator. <i>Research on Chemical Intermediates</i> , 2014 , 40, 41-48	2.8	7
28	Thermal annealing effects on the physical properties of styrenic pentablock ionomers and their electromechanical responses. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 3606-10	1.3	7
27	Styrenic block copolymer/sulfonated graphene oxide composite membranes for highly bendable ionic polymer actuators with large ion concentration gradient. <i>Composites Science and Technology</i> , 2018 , 163, 63-70	8.6	6
26	Evolution of Ion-Ion Interactions and Structures in Smectic Ionic Liquid Crystals. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20547-20557	3.8	6
25	Reduction of Electrochemically Exfoliated Graphene Films for High-Performance Electromagnetic Interference Shielding. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15827-15836	9.5	6
24	Mechanical, dielectric, and electromechanical properties of silicone dielectric elastomer actuators. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	5
23	UV-curable antibacterial ionic polysilsesquioxanes: Structure-property relationships investigating the effect of various cations and anions. <i>European Polymer Journal</i> , 2017 , 95, 323-334	5.2	5

22	Enhanced Electrical Properties of PVDF-TrFE Nanocomposite for Actuator Application. <i>Key Engineering Materials</i> , 2014 , 605, 335-339	0.4	5
21	Flame retardancy and mechanical properties of polyamide 6 with melamine polyphosphate and ionic liquid surfactant-treated montmorillonite. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	4
20	Foaming of recycled crosslinked polyethylenes via supercritical decrosslinking reaction. <i>Journal of Applied Polymer Science</i> , 2012 , 126, E21-E27	2.9	4
19	Enhanced stability of Ti3C2Tx MXene enabled by continuous ZIF-8 coating. <i>Carbon</i> , 2022 , 191, 593-599	10.4	4
18	Electroactive nanostructured polymer actuators fabricated using sulfonated styrenic pentablock copolymer/montmorillonite/ionic liquid nanocomposite membranes. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 08NC03	1.4	3
17	Hybrid Ionogel Electrolytes Derived from Polyhedral Oligomeric Silsesquioxane for Lithium Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 3101-3104	1.3	2
16	Controlling the Electromagnetic and Electrochemical Sensing Properties of Graphene via Heteroatom Doping 2019 , 663-682		2
15	Multispectral electromagnetic shielding using ultra-thin metal-metal oxide decorated hybrid nanofiber membranes. <i>Communications Materials</i> , 2021 , 2,	6	2
14	Core-shell architecture of Ni-Co MOF wrapped by a heterogeneous FeBTC@PPy layer for high-performance EMI shielding. <i>Synthetic Metals</i> , 2021 , 281, 116929	3.6	2
13	Electromagnetic shielding of Optically-Transparent and Electrically-Insulating ionic solutions. <i>Chemical Engineering Journal</i> , 2022 , 438, 135564	14.7	2
12	Polyethylene Glycol-Functionalized Siloxane Hybrid Gel Polymer Electrolytes for Lithium Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 3016-3020	1.3	1
11	Liquid Crystals: Facilitated Ion Transport in Smectic Ordered Ionic Liquid Crystals (Adv. Mater. 42/2016). <i>Advanced Materials</i> , 2016 , 28, 9439-9439	24	1
10	Metal-Ion-Intercalated MXene Nanosheet Films for NH3 Gas Detection. <i>ACS Applied Nano Materials</i> ,	5.6	1
9	Electromagnetic Interference Shielding: 2D MXenes for Electromagnetic Shielding: A Review (Adv. Funct. Mater. 47/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070307	15.6	1
8	Polymer-Based EMI Shielding Materials 2018 , 177-217		1
7	Electromechanical Properties of P(VDF-TrFE)/CNT and P(VDF-TrFE)/Gr Composites. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 566, 141-146	0.5	
6	Electromechanical Strain Responses of SEBS/CB and SEBS/SWCNT Composites. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 566, 135-140	0.5	
5	Electromagnetic Interference Shielding Using MXenes and Their Composites 2019 , 399-416		

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3 Measurements and Standards **2021**, 49-68

2 Electromagnetic Interference and Shielding **2021**, 1-24

1 Binary hybrid filler composite formulations of surface modified FeSiAl alloys for multifunctional EMI shielding and thermal conduction. *Materials Chemistry and Physics*, **2022**, 284, 126024

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