

Chong Min Koo

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6546695/chong-min-koo-publications-by-citations.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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		

4 MXenes as EMI Shielding Materials **2021**, 125-176

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

4-4