Qihuang Deng

List of Publications by Year
in descending order

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		516561	175177
55	2,791	16	52
papers	citations	h-index	g-index

56	56	56	3697
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photoluminescent Ti₃C₂ MXene Quantum Dots for Multicolor Cellular Imaging. Advanced Materials, 2017, 29, 1604847.	11.1	692
2	Highly Flexible, Freestanding Supercapacitor Electrode with Enhanced Performance Obtained by Hybridizing Polypyrrole Chains with MXene. Advanced Energy Materials, 2016, 6, 1600969.	10.2	580
3	Enhanced thermal properties of poly(vinylidene fluoride) composites with ultrathin nanosheets of MXene. RSC Advances, 2017, 7, 20494-20501.	1.7	242
4	Loading Actinides in Multilayered Structures for Nuclear Waste Treatment: The First Case Study of Uranium Capture with Vanadium Carbide MXene. ACS Applied Materials & Interfaces, 2016, 8, 16396-16403.	4.0	214
5	Facile preparation of in situ coated Ti₃C₂T_x/Ni_{0.5}Zn_{0.5}Fe₂O₄ composites and their electromagnetic performance. RSC Advances, 2017, 7, 24698-24708.	1.7	210
6	Solvothermal synthesis of in situ nitrogen-doped Ti3C2 MXene fluorescent quantum dots for selective Cu2+ detection. Ceramics International, 2020, 46, 8320-8327.	2.3	90
7	Novel Scaleâ€Like Structures of Graphite/TiC/Ti₃C₂ Hybrids for Electromagnetic Absorption. Advanced Electronic Materials, 2018, 4, 1700617.	2.6	86
8	High dielectric and breakdown properties achieved in ternary BaTiO3/MXene/PVDF nanocomposites with low-concentration fillers from enhanced interface polarization. Ceramics International, 2019, 45, 7923-7930.	2.3	86
9	Cytocompatibility of Ti₃AlC₂, Ti₃SiC₂, and Ti₂AlN: In Vitro Tests and First-Principles Calculations. ACS Biomaterials Science and Engineering, 2017, 3, 2293-2301.	2.6	75
10	An ultrahigh discharged energy density achieved in an inhomogeneous PVDF dielectric composite filled with 2D MXene nanosheets via interface engineering. Journal of Materials Chemistry C, 2018, 6, 13283-13292.	2.7	71
11	High dielectric and breakdown properties obtained in a PVDF based nanocomposite with sandwich structure at high temperature via all-2D design. Journal of Materials Chemistry C, 2019, 7, 6744-6751.	2.7	56
12	Synthesis and properties of conductive B₄C ceramic composites with TiB₂ grain network. Journal of the American Ceramic Society, 2018, 101, 3780-3786.	1.9	38
13	Three-dimensional interconnected Co(OH)₂ nanosheets on Ti mesh as a highly sensitive electrochemical sensor for hydrazine detection. New Journal of Chemistry, 2019, 43, 3218-3225.	1.4	32
14	Densification and mechanical properties of pulsed electric current sintered B4C with in situ synthesized Al3BC obtained by the molten-salt method. Journal of the European Ceramic Society, 2017, 37, 4524-4531.	2.8	25
15	Electronic structures and mechanical properties of Al(111)/ZrB₂(0001) heterojunctions from first-principles calculation. Molecular Physics, 2015, 113, 1794-1801.	0.8	21
16	Enabling High Dielectric Response in PVDF/V₂C MXeneâ€“TiO₂ Composites Based on Nontypical Vâ€“Fâ€“Ti Bonding and Fermi-Level Overlapping Mechanisms. Journal of Physical Chemistry C, 2020, 124, 27780-27789.	1.5	17
17	Eco-friendly poly(vinyl alcohol)/delaminated V2C MXene high-k nanocomposites with low dielectric loss enabled by moderate polarization and charge density at the interface. Ceramics International, 2020, 46, 27326-27335.	2.3	17
18	Remarkably improving dielectric response of polymer/hybrid ceramic composites based on 0D/2D-stacked CuO/V2C MXene heterojunction. Applied Surface Science, 2021, 545, 149008.	3.1	17

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19	Synthesis of Hexagonal Columnar <scp><scp>ZrB</scp></scp>₂ Powders Through Dissolutionâ€Recrystallization Approach by Microwave Heating Method. Journal of the American Ceramic Society, 2014, 97, 3037-3040.	1.9	16
20	Low temperature synthesis of TaB₂ nanorods by moltenâ€salt assisted borothermal reduction. Journal of the American Ceramic Society, 2018, 101, 45-49.	1.9	13
21	Preparation of hybrid ceramic/PVC composites showing both high dielectric constant and breakdown strength ascribed to interfacial effect between V2C MXene and Cu2O. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127650.	2.3	13
22	Boron nitride nanosheet-induced low dielectric loss and conductivity in PVDF-based high-k ternary composites bearing ionic liquid. Materials Today Communications, 2021, 26, 101896.	0.9	11
23	Interfacial fluorine migration-induced low leakage conduction in PVA based high-k composites with V2C MXene-SWCNT switchboard-like ceramic via ab initio MD simulations. Journal of Materials Chemistry C, 2021, 9, 1051-1061.	2.7	11
24	Finely-reconciled high dielectric constant and low dielectric loss in ternary polymer/Cr2C3/montmorillonite composite films by filler-synergy strategy. Current Applied Physics, 2021, 22, 104-110.	1.1	11
25	Conductive V2C MXene and paralelectric SrTiO3 containing polymer composites with high dielectric constant. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 632, 127763.	2.3	11
26	Ni Nanoparticle Anchored on MWCNT as a Novel Electrochemical Sensor for Detection of Phenol. Nano, 2018, 13, 1850134.	0.5	10
27	Enhanced dielectric response of ternary polymeric composite films via interfacial bonding between V2C MXene and wide-bandgap ZnS. Ceramics International, 2021, 47, 32938-32946.	2.3	9
28	High-energy density in Si-based layered nanoceramic/polymer composites based on gradient design of ceramic bandgaps. Ceramics International, 2019, 45, 16600-16607.	2.3	8
29	Strong interface effect induced high-k property in polymer based ternary composites filled with 2D layered Ti3C2 MXene nanosheets. Journal of Materials Science: Materials in Electronics, 2019, 30, 9106-9113.	1.1	8
30	Enhanced Hydrogen Evolution Activity of Ni/Ni₃S₂ Nanosheet Grown on Ti Mesh by Cu Doped Ni. Journal of the Electrochemical Society, 2019, 166, F168-F173.	1.3	8
31	Well-balanced high permittivity and low dielectric loss obtained in PVDF/graphite/BN ternary composites by depressing interfacial leakage conduction. Microelectronic Engineering, 2020, 231, 111404.	1.1	8
32	Effect of La-doped scheelite-type SrWO4 for photocatalytic H2 production. Ionics, 2019, 25, 5083-5089.	1.2	7
33	Superhydrophobic nanocomposite coatings with photoinitiated three-dimensional networks based on reactive graphene nanosheet-induced self-wrinkling patterned surfaces. Journal of Colloid and Interface Science, 2019, 536, 149-159.	5.0	7
34	Three-dimensional flower-like Niâ€“Mnâ€“S on Ti mesh: a monolithic electrochemical platform for detecting glucose. New Journal of Chemistry, 2019, 43, 7866-7873.	1.4	5
35	Interface Enhancement-Induced Improvement of Dielectric Traits in Poly(Ether Sulfone)/Ti3C2 MXene/KH550 Nanocomposites. Journal of Electronic Materials, 2020, 49, 7547-7559.	1.0	5
36	Lowering Dielectric Loss and AC Conductivity of Polymer/HfC Composite Dielectric Films via Insulating Montmorillonite Barrier. Macromolecular Research, 2021, 29, 589-596.	1.0	5

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37	Well-coordinated dielectric properties in polymer composites bearing hybrid ceramic via interfacial effect between Ti2C MXene particles and large-aspect-ratio ZrO2 fibers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 629, 127505.	2.3	5
38	Enhancing surface polarization and reducing bandgap of BaTiO3 nanofiller for preparing dielectric traits-improved composites via its hybridization with layered g-C3N4. Surfaces and Interfaces, 2022, 31, 102060.	1.5	5
39	Boro/carbothermal reduction synthesis of uranium tetraboride and its oxidation behavior in dry air. Journal of the American Ceramic Society, 2019, 102, 1049-1056.	1.9	4
40	A rational design for reconciling high permittivity and breakdown strength in layered PVDF composites from TaB₂@Ta₂O₅ nanofiller induced Schottky barrier effect. Journal of Materials Chemistry C, 2019, 7, 9975-9983.	2.7	4
41	Realizing Rationally-Balanced Dielectric Properties in Fluoropolymer/Cr2AlC MAX Composites Modified by 2D-BN. Macromolecular Research, 2020, 28, 1261-1267.	1.0	4
42	Improving Dielectric Properties in Novel P(VDF-HFP)/V2AlC MAX/Montmorillonite Composite Films via Interfacial Electric-Leakage Depressing Strategy. Electronic Materials Letters, 2021, 17, 54-62.	1.0	4
43	Enabling high dielectric response and low electrical leakage in polymer/mesoporous-silica@CdTe-quantum-dots nanocomposites by excitonic dipoles and pore-canal restriction. Ceramics International, 2021, 47, 26829-26838.	2.3	4
44	Annealing and Stretching Induced High Energy Storage Properties in All-Organic Composite Dielectric Films. Materials, 2018, 11, 2279.	1.3	3
45	Highly Retained Electric and Mechanical Traits in Micron-Sized Glass Fibers Filled Epoxy Composite Based on Heat-Oxygen Ageing. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 66-71.	1.9	3
46	Finely depressed dielectric loss and conductivity achieved in high-kappa stannic oxide/polymer nanocomposites from surfactant-assisted electric percolation. Journal of Materials Science: Materials in Electronics, 2019, 30, 2682-2692.	1.1	3
47	Improving electric insulation characteristics of PVA/V2C MXene composite high-dielectric-constant films by blending cellulose. Journal of the Australian Ceramic Society, 2021, 57, 819-824.	1.1	3
48	Reinforced dielectric response in polymer/V2C MXene composite high-insulation films enabled through dispersing ionic liquid. Journal of Electroceramics, 2021, 46, 124-130.	0.8	3
49	Achieving a high dielectric constant and low dielectric loss of polymer composites filled with an interface-bonded g-C3N4@PbS narrow-bandgap semiconductor. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 640, 128501.	2.3	3
50	Obtaining high dielectric constant and breakdown strength in composites with asymmetric MXene filler and highly insulative PVC matrix. Surfaces and Interfaces, 2022, 32, 102133.	1.5	3
51	Study on gel weight fraction of ultraviolet-cured acrylic adhesives. Chemical Papers, 2019, 73, 517-524.	1.0	2
52	Remarkably Elevated Permittivity Achieved in PVDF/1D La2TiO5 Composite Film Materials with Low-Level Dielectric Loss by Adding 2D V2C MXene Phase. Journal of Electronic Materials, 2021, 50, 2182-2189.	1.0	2
53	Electrochemical corrosion behavior and surface modification of ZrB₂ in hydrofluoric acid aqueous solution. International Journal of Applied Ceramic Technology, 2017, 14, 779-784.	1.1	1
54	Lowâ€temperature synthesis of uranium monocarbide by a Pechiniâ€type in situ polymerizable complex method. Journal of the American Ceramic Society, 2018, 101, 2786-2795.	1.9	0

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55	Mediating dielectric/breakdown conflict in polydopamine@HfB2 nanorod-filled polymer composites from rational meaty-sandwich structure. Journal of Materials Science: Materials in Electronics, 2019, 30, 21305-21315.	1.1	0