

# Jin-Kai Yuan

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

5,503  
citations

257101

24  
h-index

233125

45  
g-index

51  
all docs

51  
docs citations

51  
times ranked

4522  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water-processable cellulosic nanocomposites as green dielectric films for high-energy storage. <i>Energy Storage Materials</i> , 2022, 48, 497-506.	9.5	16
2	Systematic investigation of the influence of experimental conditions on TiO <sub>2</sub> nanosheet structures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125716.	2.3	3
3	High loading BaTiO <sub>3</sub> nanoparticles chemically bonded with fluorinated silicone rubber for largely enhanced dielectric properties of polymer nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26219-26226.	1.3	7
4	Waterborne Nanocomposites with Enhanced Breakdown Strength for High Energy Storage. <i>ACS Applied Energy Materials</i> , 2020, 3, 9107-9116.	2.5	11
5	Chemically bonding BaTiO <sub>3</sub> nanoparticles in highly filled polymer nanocomposites for greatly enhanced dielectric properties. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8786-8795.	2.7	21
6	Flower-like NiCo <sub>2</sub> O <sub>4</sub> @CN as efficient bifunctional electrocatalyst for Zn-Air battery. <i>Electrochimica Acta</i> , 2020, 341, 135997.	2.6	57
7	Improving dielectric strength of polyvinylidene fluoride by blending chains with different molecular weights. <i>Polymer</i> , 2020, 190, 122235.	1.8	11
8	Flexible Nanodielectric Materials with High Permittivity for Power Energy Storage. , 2020, , 411-495.		1
9	Inkjet Printing of Latex-Based High-Energy Microcapacitors. <i>Advanced Functional Materials</i> , 2019, 29, 1901884.	7.8	20
10	Improved Dielectric Properties in Polypropylene/Poly(vinylidene fluoride) Binary Blends Containing Boron Nitride Nanosheets: Toward High-Voltage Current Application. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11993-12000.	1.5	24
11	Shape memory nanocomposite fibers for untethered high-energy microengines. <i>Science</i> , 2019, 365, 155-158.	6.0	151
12	Core@double-shells nanowires strategy for simultaneously improving dielectric constants and suppressing losses of poly(vinylidene fluoride) nanocomposites. <i>Carbon</i> , 2018, 132, 152-156.	5.4	42
13	Giant Electrostriction of Soft Nanocomposites Based on Liquid Crystalline Graphene. <i>ACS Nano</i> , 2018, 12, 1688-1695.	7.3	21
14	All-organic microelectromechanical systems integrating electrostrictive nanocomposite for mechanical energy harvesting. <i>Nano Energy</i> , 2018, 44, 1-6.	8.2	15
15	Electrostrictive polymer composites based on liquid crystalline graphene for mechanical energy harvesting. , 2018, , .		0
16	Electrostrictive polymer composites based on liquid crystalline graphene for mechanical energy harvesting. , 2018, , .		1
17	Thermally Conductive Dielectric Polymer Materials for Energy Storage. , 2018, , 323-349.		3
18	Carbon nanotube forest based electrostatic capacitor with excellent dielectric performances. <i>Carbon</i> , 2017, 116, 648-654.	5.4	30

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19	Giant Electrostrictive Response and Piezoresistivity of Emulsion Templated Nanocomposites. <i>Langmuir</i> , 2017, 33, 4528-4536.	1.6	19
20	Anisotropic Percolation of SiC-Carbon Nanotube Hybrids: A New Route toward Thermally Conductive High- <i>k</i> Polymer Composites. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12063-12070.	1.5	34
21	Percolation of carbon nanomaterials for high- <i>k</i> polymer nanocomposites. <i>Chinese Chemical Letters</i> , 2017, 28, 2036-2044.	4.8	22
22	Dielectric Constant of Polymer Composites and the Routes to High- <i>k</i> or Low- <i>k</i> Nanocomposite Materials. , 2016, , 3-28.		11
23	Graphene liquid crystal retarded percolation for new high- <i>k</i> materials. <i>Nature Communications</i> , 2015, 6, 8700.	5.8	85
24	Giant Permittivity Polymer Nanocomposites Obtained by Curing a Direct Emulsion. <i>Langmuir</i> , 2015, 31, 12231-12239.	1.6	21
25	Temperature and electrical memory of polymer fibers. <i>AIP Conference Proceedings</i> , 2014, , .	0.3	4
26	Fibers Do the Twist. <i>Science</i> , 2014, 343, 845-846.	6.0	21
27	Effective synergistic effect of Al <sub>2</sub> O <sub>3</sub> and SiC microparticles on the growth of carbon nanotubes and their application in high dielectric permittivity polymer composites. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7980-7987.	5.2	32
28	Vertically Aligned Carbon Nanotube Arrays on SiC Microplatelets: A High Figure-of-Merit Strategy for Achieving Large Dielectric Constant and Low Loss in Polymer Composites. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22975-22983.	1.5	42
29	Flexible Nanodielectric Materials with High Permittivity for Power Energy Storage. <i>Advanced Materials</i> , 2013, 25, 6334-6365.	11.1	1,204
30	The controlled formation of hybrid structures of multi-walled carbon nanotubes on SiC plate-like particles and their synergetic effect as a filler in poly(vinylidene fluoride) based composites. <i>Carbon</i> , 2013, 51, 355-364.	5.4	33
31	High-permittivity polymer nanocomposites: Influence of interface on dielectric properties. <i>Journal of Advanced Dielectrics</i> , 2013, 03, 1330004.	1.5	44
32	Piezoresistive Behavior of Electrically Conductive Carbon Fillers/Thermoplastic Elastomer Nanocomposites. <i>Journal of Advanced Physics</i> , 2013, 2, 70-74.	0.4	16
33	Dielectric Properties and Thermal Expansion of ZrW <sub>2</sub> O <sub>8</sub> /Polyimide Hybrid Films. <i>Journal of Advanced Physics</i> , 2012, 1, 48-53.	0.4	5
34	Chemical Vapor Deposition Synthesis of Carbon Nanotube-Graphene Nanosheet Hybrids and Their Application in Polymer Composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 6935-6940.	0.9	31
35	Effect of oxygen vacancy on the dielectric relaxation of BaTiO <sub>3</sub> thin films in a quenched state. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	24
36	A facile way to fabricate novel 2-3-type composites based on zinc powders and polyvinylidene fluoride with enhanced dielectric properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 842-846.	3.8	15

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37	Biphasic Polymer Blends Containing Carbon Nanotubes: Heterogeneous Nanotube Distribution and Its Influence on the Dielectric Properties. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2051-2058.	1.5	116
38	The use of vertically aligned carbon nanotubes grown on SiC for in situ sensing of elastic and plastic deformation in electrically percolative epoxy composites. <i>Carbon</i> , 2012, 50, 4298-4301.	5.4	24
39	Fundamentals, processes and applications of high-permittivity polymer matrix composites. <i>Progress in Materials Science</i> , 2012, 57, 660-723.	16.0	1,467
40	Stretch-Modulated Carbon Nanotube Alignment in Ferroelectric Polymer Composites: Characterization of the Orientation State and Its Influence on the Dielectric Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20011-20017.	1.5	72
41	High dielectric permittivity and low percolation threshold in polymer composites based on SiC-carbon nanotubes micro/nano hybrid. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	124
42	Giant Dielectric Permittivity Nanocomposites: Realizing True Potential of Pristine Carbon Nanotubes in Polyvinylidene Fluoride Matrix through an Enhanced Interfacial Interaction. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5515-5521.	1.5	341
43	Improving Dielectric Properties of BaTiO <sub>3</sub> /Ferroelectric Polymer Composites by Employing Surface Hydroxylated BaTiO <sub>3</sub> Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 2184-2188.	4.0	388
44	Preparation and dielectric properties of surface modified TiO <sub>2</sub> /silicone rubber nanocomposites. <i>Materials Letters</i> , 2011, 65, 3430-3432.	1.3	92
45	Fabrication and dielectric properties of advanced high permittivity polyaniline/poly(vinylidene fluoride) composites. <i>Journal of Applied Physics</i> , 2011, 110, 074101.	6.7	188
46	High dielectric performance of three-component nanocomposites induced by a synergetic effect. <i>Materials Letters</i> , 2010, 64, 2682-2684.	1.3	28
47	Tailored Dielectric Properties based on Microstructure Change in BaTiO <sub>3</sub> -Carbon Nanotube/Polyvinylidene Fluoride Three-Phase Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13204-13209.	1.5	168
48	Advanced Calcium Copper Titanate/Polyimide Functional Hybrid Films with High Dielectric Permittivity. <i>Advanced Materials</i> , 2009, 21, 2077-2082.	11.1	378
49	Polyaniline/poly(vinylidene fluoride) functional hybrid films with high electric energy density. , 2009, .		0
50	Unique dielectric properties in polyaniline/poly(vinylidene fluoride) composites induced by temperature variation. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008, 2, 233-235.	1.2	19