

# Wanquan Jiang

## List of Publications by Year in descending order

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58  
papers

2,388  
citations

159585

30  
h-index

214800

47  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2433  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact resistance of shear thickening fluid/Kevlar composite treated with shear-stiffening gel. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 106, 82-90.	7.6	132
2	Yolk-like Micro/Nanoparticles with Superparamagnetic Iron Oxide Cores and Hierarchical Nickel Silicate Shells. <i>Advanced Functional Materials</i> , 2011, 21, 1902-1909.	14.9	110
3	Study of the knife stab and puncture-resistant performance for shear thickening fluid enhanced fabric. <i>Journal of Composite Materials</i> , 2014, 48, 641-657.	2.4	110
4	Dynamic behavior of magnetically responsive shear-stiffening gel under high strain rate. <i>Composites Science and Technology</i> , 2016, 127, 169-176.	7.8	90
5	Multifunctional polymer composite with excellent shear stiffening performance and magnetorheological effect. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7133-7140.	5.5	87
6	Shear-thickening behavior of polymethylmethacrylate particles suspensions in glycerine-water mixtures. <i>Rheologica Acta</i> , 2010, 49, 1157-1163.	2.4	78
7	A Hydrophobic, Self-Powered, Electromagnetic Shielding PVDF-Based Wearable Device for Human Body Monitoring and Protection. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 47340-47349.	8.0	78
8	High performance polydopamine-functionalized mesoporous silica nanospheres for U(VI) removal. <i>Applied Surface Science</i> , 2017, 426, 1121-1132.	6.1	73
9	CNT/STF/Kevlar-based wearable electronic textile with excellent anti-impact and sensing performance. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 126, 105612.	7.6	70
10	A FeCO <sub>3</sub> Precursor-Based Route to Microsized Peanutlike Fe <sub>3</sub> O <sub>4</sub> . <i>Crystal Growth and Design</i> , 2007, 7, 430-434.	3.0	69
11	Superparamagnetic Ag@Fe <sub>3</sub> O <sub>4</sub> core-shell nanospheres: fabrication, characterization and application as reusable nanocatalysts. <i>Dalton Transactions</i> , 2012, 41, 4594.	3.3	69
12	Flexible PTFE/MXene/PI soft electrothermal actuator with electromagnetic-interference shielding property. <i>Chemical Engineering Journal</i> , 2021, 414, 128883.	12.7	65
13	Dimorphic magnetorheological fluid with improved rheological properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 3246-3250.	2.3	63
14	Rate-dependent and self-healing conductive shear stiffening nanocomposite: a novel safe-guarding material with force sensitivity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19790-19799.	10.3	63
15	A liquid metal-based triboelectric nanogenerator as stretchable electronics for safeguarding and self-powered mechanosensing. <i>Nano Energy</i> , 2018, 53, 863-870.	16.0	63
16	Novel Safeguarding Tactile e-skins for Monitoring Human Motion Based on SST/PDMS-AgNW-PET Hybrid Structures. <i>Advanced Functional Materials</i> , 2018, 28, 1707538.	14.9	62
17	Stress and Magnetic Field Bimode Detection Sensors Based on Flexible Cl/CNTs-PDMS Sponges. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 30774-30784.	8.0	57
18	Hierarchical core/shell Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @ $\gamma$ -AlOOH@Au micro/nanoflowers for protein immobilization. <i>Chemical Communications</i> , 2011, 47, 2514.	4.1	56

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19	Smart wearable Kevlar-based safeguarding electronic textile with excellent sensing performance. <i>Soft Matter</i> , 2017, 13, 2483-2491.	2.7	52
20	Shear Stiffening Gels for Intelligent Anti-impact Applications. <i>Cell Reports Physical Science</i> , 2020, 1, 100266.	5.6	52
21	A facile one-step method to synthesize $\text{SiO}_2$ @polydopamine core-shell nanospheres for shear thickening fluid. <i>RSC Advances</i> , 2016, 6, 29279-29287.	3.6	51
22	Strain rate-induced phase transitions in an impact-hardening polymer composite. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	50
23	Stress pulse attenuation in shear thickening fluid. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	46
24	Poly(methyl methacrylate)-coated carbonyl iron particles and their magnetorheological characteristics. <i>Polymer International</i> , 2010, 59, 879-883.	3.1	41
25	Sonochemical synthesis and characterization of magnetic separable $\text{Fe}_3\text{O}_4/\text{Ag}$ composites and its catalytic properties. <i>Journal of Alloys and Compounds</i> , 2010, 508, 400-405.	5.5	40
26	Advanced triboelectric nanogenerator with multi-mode energy harvesting and anti-impact properties for smart glove and wearable e-textile. <i>Nano Energy</i> , 2020, 78, 105291.	16.0	35
27	Highly Flexible Multilayered e-Skins for Thermal-Magnetic-Mechanical Triple Sensors and Intelligent Grippers. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 15675-15685.	8.0	34
28	Sonochemical synthesis and characterization of magnetic separable $\text{Fe}_3\text{O}_4$ - $\text{TiO}_2$ nanocomposites and their catalytic properties. <i>International Journal of Smart and Nano Materials</i> , 2010, 1, 278-287.	4.2	32
29	Immobilization of Pd nanocatalysts on magnetic rattles and their catalytic property. <i>Dalton Transactions</i> , 2011, 40, 7827.	3.3	32
30	Study of the particles' structure dependent rheological behavior for polymer nanospheres based shear thickening fluid. <i>Journal of Colloid and Interface Science</i> , 2014, 413, 8-16.	9.4	31
31	Normal forces of magnetorheological fluids under oscillatory shear. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 1218-1224.	2.3	30
32	Influence of surfactants on shear-thickening behavior in concentrated polymer dispersions. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	30
33	Magnetic recyclable Ag catalysts with a hierarchical nanostructure. <i>Nanotechnology</i> , 2011, 22, 375701.	2.6	26
34	Oscillatory normal forces of magnetorheological fluids. <i>Soft Matter</i> , 2012, 8, 5256.	2.7	26
35	Structure and electrorheological properties of nanoporous $\text{BaTiO}_3$ crystalline powders prepared by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 52, 8-14.	2.4	25
36	Rod-like $\text{Fe}_2\text{FeOOH}$ @poly(dopamine)-Au poly(dopamine) nanocatalysts with improved recyclable activities. <i>Dalton Transactions</i> , 2015, 44, 9538-9544.	3.3	25

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37	Functional Kevlar-Based Triboelectric Nanogenerator with Impact Energy-Harvesting Property for Power Source and Personal Safeguard. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 6575-6584.	8.0	25
38	General and Facile Method to Fabricate Yolk-like Structural Magnetic Nanocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8274-8284.	6.7	24
39	A high anti-impact STF/Ecoflex composite structure with a sensing capacity for wearable design. <i>Composites Part B: Engineering</i> , 2022, 233, 109656.	12.0	24
40	Silicon carbide-strengthened magnetorheological elastomer: Preparation and mechanical property. <i>Polymer Engineering and Science</i> , 2013, 53, 2615-2623.	3.1	23
41	Preparation of barium strontium titanate Ba <sub>1-x</sub> Sr <sub>x</sub> TiO <sub>3</sub> (0 ≤ x ≤ 0.2) single-crystal nanorods by a novel combined method. <i>Ultrasonics Sonochemistry</i> , 2007, 14, 208-212.	8.2	22
42	Magnetic microspheres with polydopamine encapsulated ultra-small noble metal nanocrystals as mimetic enzymes for the colorimetric detection of H <sub>2</sub> O <sub>2</sub> and glucose. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4568-4580.	5.8	20
43	PVP immobilized SiO <sub>2</sub> nanospheres for high-performance shear thickening fluid. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	19
44	Non-tensile piezoresistive sensor based on coaxial fiber with magnetoactive shell and conductive flax core. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 149, 106548.	7.6	19
45	Enhanced Kevlar-based triboelectric nanogenerator with anti-impact and sensing performance towards wireless alarm system. <i>Nano Energy</i> , 2022, 91, 106657.	16.0	18
46	An experimental investigation on the normal force behavior of magnetorheological suspensions. <i>Korea Australia Rheology Journal</i> , 2012, 24, 171-180.	1.7	17
47	A smart Kevlar-based triboelectric nanogenerator with enhanced anti-impact and self-powered sensing properties. <i>Smart Materials and Structures</i> , 2020, 29, 125007.	3.5	16
48	Controllable synthesis of hierarchical strontium molybdate by sonochemical method. <i>Crystal Research and Technology</i> , 2012, 47, 997-1003.	1.3	15
49	A safeguarding and high temperature tolerant organogel electrolyte for flexible solid-state supercapacitors. <i>Journal of Power Sources</i> , 2021, 505, 230083.	7.8	13
50	Liquid or solid? a biologically inspired concentrated suspension for protective coating. <i>Chemical Engineering Journal</i> , 2022, 428, 131793.	12.7	13
51	Spatially ensemble of polydopamine-protected-Au nanocrystals on Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> @AlOOH microflower for improving catalytic performance. <i>Applied Surface Science</i> , 2021, 543, 148750.	6.1	12
52	Asymmetric PSt-EA/Ni-Silicate hollow microsphere with a hierarchical porous shell. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1414.	5.8	10
53	Coaxial direct ink writing of shear stiffening gel/Ecoflex composite for customized insoles. <i>Composites Part B: Engineering</i> , 2021, 225, 109268.	12.0	10
54	Dielectric relaxation effect on flow behavior of electrorheological fluids. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 1141-1149.	2.5	9

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55	Fabrication and characterization of photocatalytic activity of Fe <sub>3</sub> O <sub>4</sub> -doped CdS hollow spheres. Journal of Physics and Chemistry of Solids, 2009, 70, 782-786.	4.0	8
56	The normal stress of an electrorheological fluid in compression mode. RSC Advances, 2017, 7, 25855-25860.	3.6	8
57	Preparation and Characterization of Nickel-poly(St-co-AA) Composite Nanoparticles. Journal of Nanoparticle Research, 1999, 1, 491-494.	1.9	5
58	Colorimetric Sensing of Dopamine Based on Peroxidase-Like Activity of Gold Nanoparticles. Journal of Analytical Chemistry, 2019, 74, 679-685.	0.9	5