Xudong Fu

List of Publications by Year in descending order

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30 papers	712 citations	516710 16 h-index	552781 26 g-index
30 all docs	30 docs citations	30 times ranked	810 citing authors

#	Article	IF	Citations
1	Highly flexible strain sensors based on polydimethylsiloxane/carbon nanotubes (CNTs) prepared by a swelling/permeating method and enhanced sensitivity by CNTs surface modification. Composites Science and Technology, 2019, 171, 218-225.	7.8	62
2	Designing high electrochemical surface area between polyaniline and hydrogel polymer electrolyte for flexible supercapacitors. Applied Surface Science, 2020, 507, 145135.	6.1	60
3	Poly(2,5-benzimidazole)/sulfonated sepiolite composite membranes with low phosphoric acid doping levels for PEMFC applications in a wide temperature range. Journal of Membrane Science, 2019, 574, 282-298.	8.2	57
4	The Current Developments and Perspectives of V₂O₅ as Cathode for Rechargeable Aqueous Zincâ€ion Batteries. Energy Technology, 2021, 9, 2000789.	3.8	55
5	Design of sepiolite-supported ionogel-embedded composite membranes without proton carrier wastage for wide-temperature-range operation of proton exchange membrane fuel cells. Journal of Materials Chemistry A, 2019, 7, 15288-15301.	10.3	54
6	Bio-inspired Construction of Advanced Fuel Cell Cathode with Pt Anchored in Ordered Hybrid Polymer Matrix. Scientific Reports, 2015, 5, 16100.	3.3	48
7	FeVO4â‹…nH2O@rGO nanocomposite as high performance cathode materials for aqueous Zn-ion batteries. Journal of Alloys and Compounds, 2020, 818, 153372.	5.5	46
8	Facile one-step preparation of laminated PDMS based flexible strain sensors with high conductivity and sensitivity via filler sedimentation. Composites Science and Technology, 2020, 186, 107933.	7.8	33
9	Polyaniline Nanorod Arrays as a Cathode Material for High-Rate Zinc-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 12360-12367.	5.1	32
10	A Self-Charging Hybrid Electric Power Device with High Specific Energy and Power. ACS Energy Letters, 2018, 3, 2425-2432.	17.4	30
11	Aligned polyaniline nanorods in situ grown on gas diffusion layer and their application in polymer electrolyte membrane fuel cells. International Journal of Hydrogen Energy, 2016, 41, 3655-3663.	7.1	28
12	Micelle-template synthesis of a 3D porous FeNi alloy and nitrogen-codoped carbon material as a bifunctional oxygen electrocatalyst. Electrochimica Acta, 2020, 331, 135375.	5.2	28
13	Hierarchically ordered arrays with platinum coated PANI nanowires for highly efficient fuel cell electrodes. Journal of Materials Chemistry A, 2017, 5, 15260-15265.	10.3	25
14	Electroactivation-induced hydrated zinc vanadate as cathode for high-performance aqueous zinc-ion batteries. Journal of Alloys and Compounds, 2021, 884, 161147.	5.5	20
15	Bioinspired design of flexible strain sensor with high performance based on gradient filler distributions. Composites Science and Technology, 2020, 200, 108319.	7.8	18
16	Homogeneously dispersed composites of hydroxyapatite nanorods and poly(lactic acid) and their mechanical properties and crystallization behavior. Composites Part A: Applied Science and Manufacturing, 2020, 132, 105841.	7.6	18
17	Hydrophilic PDMS with a sandwich-like structure and no loss of mechanical properties and optical transparency. Applied Surface Science, 2020, 503, 144126.	6.1	14
18	Preparation and properties of flexible conductive polydimethylsiloxane composites containing hybrid fillers. Polymer Bulletin, 2019, 76, 6487-6501.	3.3	13

#	Article	IF	Citations
19	Reticulated polyaniline nanowires as a cathode microporous layer for high-temperature PEMFCs. International Journal of Hydrogen Energy, 2021, 46, 8802-8809.	7.1	12
20	Polyethyleneimine-filled sepiolite nanorods-embedded poly(2,5-benzimidazole) composite membranes for wide-temperature PEMFCs. Journal of Cleaner Production, 2022, 359, 131977.	9.3	12
21	Advanced montmorillonite modification by using corrosive microorganisms as an alternative filler to reinforce natural rubber. Applied Clay Science, 2022, 225, 106534.	5.2	10
22	Polypyrrole nanowires as a cathode microporous layer for direct methanol fuel cell to enhance oxygen transport. International Journal of Energy Research, 2021, 45, 3375-3384.	4.5	9
23	Advanced coal fly ash modification by using corrosive microorganisms as alternative filler-reinforcing fluororubbers. Materials Letters, 2019, 246, 32-35.	2.6	6
24	In situ synthesis of star copolymers consisting of a <scp>polyhedral oligomeric silsesquioxane</scp> core and poly(2,5â€benzimidazole) arms for highâ€temperature proton exchange membrane fuel cells. International Journal of Energy Research, 2020, 44, 8769-8780.	4.5	6
25	Chemical Foaming Coupled Self-Etching: A Multiscale Processing Strategy for Ultrahigh-Surface-Area Carbon Aerogels. ACS Applied Materials & Interfaces, 2018, 10, 2819-2827.	8.0	5
26	The tunable sensing behaviors of flexible conductive PDMS/NCG composites via regulation of filler size prepared by a facile sedimentation method. Composites Science and Technology, 2021, 216, 109037.	7.8	4
27	Hybrid polymer matrix composite containing polyaniline and Nafion as novel precursor of the enhanced catalyst for oxygen reduction reaction. RSC Advances, 2016, 6, 59961-59969.	3.6	3
28	Enhanced Specific Capacitance and Stability of Polyaniline by Nafion Doping. ChemElectroChem, 2022, 9, .	3.4	2
29	A Modified Fourâ€Probe Method to Separate Ionic Conductance from Composite Conductors. ChemElectroChem, 2020, 7, 3535-3538.	3.4	1
30	Improved Sensitivity of Flexible Conductive Composites Throughout the Working Strain Range Based on Bioinspired Strain Redistribution. ACS Applied Polymer Materials, 2022, 4, 1608-1616.	4.4	1