

# Guozhi Zhang

## List of Publications by Year in descending order

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22  
papers

781  
citations

933447

10  
h-index

839539

18  
g-index

22  
all docs

22  
docs citations

22  
times ranked

482  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rh-doped MoSe <sub>2</sub> as a toxic gas scavenger: a first-principles study. <i>Nanoscale Advances</i> , 2019, 1, 772-780.	4.6	261
2	Pd-doped MoS <sub>2</sub> monolayer: A promising candidate for DGA in transformer oil based on DFT method. <i>Applied Surface Science</i> , 2019, 470, 1035-1042.	6.1	248
3	AC Breakdown and Decomposition Characteristics of Environmental Friendly Gas C <sub>5</sub> F <sub>10</sub> O/Air and C <sub>5</sub> F <sub>10</sub> O/N <sub>2</sub> . <i>IEEE Access</i> , 2019, 7, 73954-73960.	4.2	56
4	First-Principles Insight into Pd-Doped ZnO Monolayers as a Promising Scavenger for Dissolved Gas Analysis in Transformer Oil. <i>ACS Omega</i> , 2020, 5, 17801-17807.	3.5	40
5	Ladder-Wise calculation method for coordinate of transformer PD source based on planar layout UHF antenna sensors. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2020, 15, 340-345.	1.4	35
6	Theoretical screening into Ru-doped MoS <sub>2</sub> monolayer as a promising gas sensor upon SO <sub>2</sub> and SOF <sub>2</sub> in SF <sub>6</sub> insulation devices. <i>Molecular Physics</i> , 2022, 120, .	1.7	33
7	On-Line Monitoring of Partial Discharge of Less-Oil Immersed Electric Equipment Based on Pressure and UHF. <i>IEEE Access</i> , 2019, 7, 11178-11186.	4.2	20
8	Effect of oxygen on power frequency breakdown voltage and decomposition characteristics of the C <sub>5</sub> F <sub>10</sub> O/N <sub>2</sub> O <sub>2</sub> gas mixture. <i>RSC Advances</i> , 2019, 9, 18963-18970.	3.6	15
9	On the Feasibility of Gap Detection of Power Transformer Partial Discharge UHF Signals: Gap Propagation Characteristics of Electromagnetic Waves. <i>Energies</i> , 2017, 10, 1531.	3.1	14
10	Facile Fabrication of Au Nanoparticles/Tin Oxide/Reduced Graphene Oxide Ternary Nanocomposite and Its High-Performance SF <sub>6</sub> Decomposition Components Sensing. <i>Frontiers in Chemistry</i> , 2019, 7, 476.	3.6	11
11	Synergistic treatment of SF <sub>6</sub> by dielectric barrier discharge/ $\gamma$ -Al <sub>2</sub> O <sub>3</sub> catalysis. <i>AIP Advances</i> , 2018, 8, .	1.3	10
12	Study on localization of transformer partial discharge source with planar arrangement UHF sensors based on singular value elimination. <i>AIP Advances</i> , 2018, 8, 105232.	1.3	8
13	SF <sub>6</sub> abatement in a packed bed plasma reactor: study towards the effect of O <sub>2</sub> concentration. <i>RSC Advances</i> , 2019, 9, 34827-34836.	3.6	7
14	Partial Discharge Detection in Transformer Based on Optical Method. , 2018, , .		6
15	Flexible Planar Monopole Built-in GIS PD Sensor Based on Meandering Technology. <i>Sensors</i> , 2022, 22, 4134.	3.8	6
16	Research on transformer fault diagnosis: Based on improved firefly algorithm optimized LPboost classification and regression tree. <i>IET Generation, Transmission and Distribution</i> , 2021, 15, 2926-2942.	2.5	3
17	Study on insulation defect discharge features of dry-type reactor based on audible acoustic. <i>AIP Advances</i> , 2022, 12, 025210.	1.3	3
18	Optimized sleeve monopole antenna for detection of electrostatic discharge radiation of spacecraft solar array. <i>Review of Scientific Instruments</i> , 2019, 90, 015008.	1.3	2

#	ARTICLE	IF	CITATIONS
19	Research on Pressure-based Detection Technology for Partial Overheat Insulation Defect of Oil-less Power Equipment. IOP Conference Series: Earth and Environmental Science, 2021, 632, 042009.	0.3	2
20	Research on Fault Diagnosis Technology of Less-Oil Immersed Electric Equipment Based on Pressure. , 2021, , .		1
21	Optimization of PD Ultra High Frequency Antenna Sensor Based on Simplified Real Frequency Method. , 2018, , .		0
22	Research Status of Insulation Detection Technology for Less Oil-Immersed Power Equipment. , 2020, , .		0