

Chao Tang

List of Publications by Year in descending order

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141
papers

4,058
citations

101543

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141
all docs

141
docs citations

141
times ranked

1822
citing authors

#	ARTICLE	IF	CITATIONS
1	Space charge behavior in multi-layer oil-paper insulation under different DC voltages and temperatures. IEEE Transactions on Dielectrics and Electrical Insulation, 2010, 17, 775-784.	2.9	143
2	First-principles study of SF ₆ decomposed gas adsorbed on Au-decorated graphene. Applied Surface Science, 2016, 367, 259-269.	6.1	141
3	A DFT study of dissolved gas (C ₂ H ₂ , H ₂ , CH ₄) detection in oil on CuO-modified BNNT. Applied Surface Science, 2020, 500, 144030.	6.1	123
4	A DFT Study on the Adsorption of H ₂ S and SO ₂ on Ni Doped MoS ₂ Monolayer. Nanomaterials, 2018, 8, 646.	4.1	120
5	Adsorption of SF ₆ decomposition components over Pd (1 \times 1 \times 1): A density functional theory study. Applied Surface Science, 2019, 465, 172-179.	6.1	112
6	Analysis of adsorption properties of typical partial discharge gases on Ni-SWCNTs using density functional theory. Applied Surface Science, 2016, 379, 47-54.	6.1	104
7	Adsorption of SF ₆ decomposition components on Pt ₃ -TiO ₂ (1 \times 0 \times 1) surface: A DFT study. Applied Surface Science, 2018, 459, 242-248.	6.1	90
8	Adsorption of C ₂ H ₂ , CH ₄ and CO on Mn-doped graphene: Atomic, electronic, and gas-sensing properties. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 119, 113959.	2.7	86
9	Fabrication and characterization of highly sensitive and selective sensors based on porous NiO nanodisks. Sensors and Actuators B: Chemical, 2018, 259, 604-615.	7.8	85
10	Platinum modified MoS ₂ monolayer for adsorption and gas sensing of SF ₆ decomposition products: a DFT study. High Voltage, 2020, 5, 454-462.	4.7	85
11	Adsorption properties of pristine and Co-doped TiO ₂ (1 \times 0 \times 1) toward dissolved gas analysis in transformer oil. Applied Surface Science, 2020, 507, 145163.	6.1	79
12	Classifying Transformer Winding Deformation Fault Types and Degrees Using FRA Based on Support Vector Machine. IEEE Access, 2019, 7, 112494-112504.	4.2	78
13	Review of Research Progress on the Electrical Properties and Modification of Mineral Insulating Oils Used in Power Transformers. Energies, 2018, 11, 487.	3.1	75
14	Gas-sensing properties of Ptn-doped WSe ₂ to SF ₆ decomposition products. Journal of Industrial and Engineering Chemistry, 2021, 97, 452-459.	5.8	75
15	The sensing mechanism of N-doped SWCNTs toward SF ₆ decomposition products: A first-principle study. Applied Surface Science, 2018, 440, 846-852.	6.1	72
16	A simulation of Pd-doped SWCNTs used to detect SF ₆ decomposition components under partial discharge. Applied Surface Science, 2014, 315, 196-202.	6.1	71
17	Thermal aging micro-scale analysis of power transformer pressboard. IEEE Transactions on Dielectrics and Electrical Insulation, 2008, 15, 1281-1287.	2.9	65
18	Influence of moisture on space charge dynamics in multilayer oil-paper insulation. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 1456-1464.	2.9	62

#	ARTICLE	IF	CITATIONS
19	Adsorption and sensing performances of transition metal (Ag, Pd, Pt, Rh, and Ru) modified WSe ₂ monolayer upon SF ₆ decomposition gases (SOF ₂ and SO ₂ F ₂). Applied Surface Science, 2022, 581, 152365.	6.1	61
20	Comparison of sensing and electronic properties of C ₂ H ₂ on different transition metal oxide nanoparticles (Fe ₂ O ₃ , NiO, TiO ₂) modified BNNT (10, 0). Applied Surface Science, 2020, 521, 146463.	6.1	59
21	Interfacial Hydrogen Bonds and Their Influence Mechanism on Increasing the Thermal Stability of Nano-SiO ₂ -Modified Meta-Aramid Fibres. Polymers, 2017, 9, 504.	4.5	58
22	Gas-sensing properties and mechanism of Pd-GaNNTs for air decomposition products in ring main unit. Applied Surface Science, 2020, 531, 147293.	6.1	58
23	Adsorption and gas-sensing properties of Pt@GaNNTs for SF ₆ decomposition products. Applied Surface Science, 2020, 524, 146570.	6.1	56
24	Micro-scale effects of nano-SiO ₂ modification with silane coupling agents on the cellulose/nano-SiO ₂ interface. Nanotechnology, 2019, 30, 445701.	2.6	52
25	Selection of Optimal Polymerization Degree and Force Field in the Molecular Dynamics Simulation of Insulating Paper Cellulose. Energies, 2017, 10, 1377.	3.1	51
26	Enhanced mechanical properties and thermal stability of cellulose insulation paper achieved by doping with melamine-grafted nano-SiO ₂ . Cellulose, 2018, 25, 3619-3633.	4.9	51
27	Electrospun ZnO@SnO ₂ Composite Nanofibers and Enhanced Sensing Properties to SF ₆ Decomposition Byproduct H ₂ S. Frontiers in Chemistry, 2018, 6, 540.	3.6	48
28	Preparation and Application of TiO ₂ Nanotube Array Gas Sensor for SF ₆ -Insulated Equipment Detection: a Review. Nanoscale Research Letters, 2016, 11, 302.	5.7	45
29	Au (n=4) cluster doped MoSe ₂ nanosheet as a promising gas-sensing material for C ₂ H ₄ gas in oil-immersed transformer. Applied Surface Science, 2021, 541, 148356.	6.1	45
30	TiO ₂ @Doped GeSe Monolayer: A highly selective gas sensor for SF ₆ decomposed species detection based on DFT method. Applied Surface Science, 2022, 572, 151212.	6.1	44
31	Molecular simulation and experimental analysis of Al ₂ O ₃ -nanoparticle-modified insulation paper cellulose. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 1018-1026.	2.9	43
32	Palladium modified MoS ₂ monolayer for adsorption and scavenging of SF ₆ decomposition products: A DFT study. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 123, 114178.	2.7	42
33	The performance improvement of aramid insulation paper by nano-SiO ₂ modification. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 2400-2409.	2.9	41
34	Molecular Simulation on the Thermal Stability of Meta-Aramid Insulation Paper Fiber at Transformer Operating Temperature. Polymers, 2018, 10, 1348.	4.5	38
35	DFT-based study on H ₂ S and SOF ₂ adsorption on Si-MoS ₂ monolayer. Results in Physics, 2019, 13, 102225.	4.1	38
36	Adsorption properties of Ag ₂ O@MoSe ₂ towards SF ₆ decomposed products. Vacuum, 2021, 189, 110248.	3.5	37

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37	Adsorption and gas-sensing properties of C ₂ H ₄ , CH ₄ , H ₂ , H ₂ O on metal oxides (CuO, NiO) modified SnS ₂ monolayer: A DFT study. Results in Physics, 2021, 28, 104680.	4.1	37
38	Thermal stability of polyphenylsilsesquioxane-modified meta-aramid insulation paper. High Voltage, 2020, 5, 264-269.	4.7	37
39	Effect of Moisture on Mechanical Properties and Thermal Stability of Meta-Aramid Fiber Used in Insulating Paper. Polymers, 2017, 9, 537.	4.5	36
40	The Insulation Properties of Oil-Impregnated Insulation Paper Reinforced with Nano-TiO ₂ . Journal of Nanomaterials, 2013, 2013, 1-7.	2.7	35
41	Analysis and mechanism of adsorption of naphthenic mineral oil, water, formic acid, carbon dioxide, and methane on meta-aramid insulation paper. Journal of Materials Science, 2019, 54, 8556-8570.	3.7	35
42	Pd and Pt decorated GeSe monolayers as promising materials for SOF ₂ and SO ₂ F ₂ sensing. Applied Surface Science, 2021, 560, 150028.	6.1	32
43	Adsorption of gases from SF ₆ decomposition on aluminum-doped SWCNTs: a density functional theory study. European Physical Journal D, 2015, 69, 1.	1.3	31
44	Detection of Water Content in Transformer Oil Using Multi Frequency Ultrasonic with PCA-GA-BPNN. Energies, 2019, 12, 1379.	3.1	31
45	Fabrication of Al ₂ O ₃ Nano-Structure Functional Film on a Cellulose Insulation Polymer Surface and Its Space Charge Suppression Effect. Polymers, 2017, 9, 502.	4.5	30
46	Pt Cluster Modified h-BN for Gas Sensing and Adsorption of Dissolved Gases in Transformer Oil: A Density Functional Theory Study. Nanomaterials, 2019, 9, 1746.	4.1	30
47	Synthesis and Characterization of Highly Sensitive Hydrogen (H ₂) Sensing Device Based on Ag Doped SnO ₂ Nanospheres. Materials, 2018, 11, 492.	2.9	29
48	Theoretical and experimental study on competitive adsorption of SF ₆ decomposed components on Au-modified anatase (101) surface. Applied Surface Science, 2016, 387, 437-445.	6.1	28
49	Theoretical study of the adsorption of SF ₆ decomposition components on Ni(111) surface. Computational Materials Science, 2018, 152, 248-255.	3.0	28
50	Preparation and Electrical Properties of Insulation Paper Composed of SiO ₂ Hollow Spheres. Energies, 2012, 5, 2943-2951.	3.1	27
51	Effect of Aminosilane Coupling Agents with Different Chain Lengths on Thermo-Mechanical Properties of Cross-Linked Epoxy Resin. Nanomaterials, 2018, 8, 951.	4.1	27
52	Diagnosing Transformer Winding Deformation Faults Based on the Analysis of Binary Image Obtained From FRA Signature. IEEE Access, 2019, 7, 40463-40474.	4.2	27
53	Effects of hydrogen sulfide on the mechanical and thermal properties of cellulose insulation paper: A molecular dynamics simulation. Materials Chemistry and Physics, 2020, 240, 122153.	4.0	26
54	Research on the feature extraction of DC space charge behavior of oil-paper insulation. Science China Technological Sciences, 2011, 54, 1315-1324.	4.0	25

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55	Progress of Space Charge Research on Oil-Paper Insulation Using Pulsed Electroacoustic Techniques. Energies, 2016, 9, 53.	3.1	25
56	The actual measurement and analysis of transformer winding deformation fault degrees by FRA using mathematical indicators. Electric Power Systems Research, 2020, 184, 106324.	3.6	25
57	Adsorption behavior of metal oxides (CuO, NiO, Ag ₂ O) modified GeSe monolayer towards dissolved gases (CO, CH ₄ , C ₂ H ₂ , C ₂ H ₄) in transformer oil. Journal of Industrial and Engineering Chemistry, 2022, 112, 134-145.	5.8	25
58	Ni-CNT Chemical Sensor for SF ₆ Decomposition Components Detection: A Combined Experimental and Theoretical Study. Sensors, 2018, 18, 3493.	3.8	24
59	Molecular dynamics simulation on the thermodynamic properties of insulating paper cellulose modified by silane coupling agent grafted nano-SiO ₂ . AIP Advances, 2019, 9, 125134.	1.3	24
60	Agglomeration mechanism and restraint measures of SiO ₂ nanoparticles in meta-aramid fibers doping modification via molecular dynamics simulations. Nanotechnology, 2020, 31, 165702.	2.6	24
61	Molecular simulation on the mechanical and thermal properties of carbon nanowire modified cellulose insulating paper. Composite Structures, 2021, 261, 113283.	5.8	24
62	A review on the research progress and future development of nano-modified cellulose insulation paper. IET Nanodielectrics, 2022, 5, 63-84.	4.1	24
63	Experimental analyses and molecular simulation of the thermal aging of transformer insulation paper. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 3608-3616.	2.9	23
64	Cellulose insulation paper with high thermal stability and low polarizability: influence of different substituents on POSS modified cellulose insulating paper. Cellulose, 2021, 28, 6023.	4.9	22
65	Molecular simulation research on the micro effect mechanism of interfacial properties of nano SiO ₂ /meta-aramid fiber. International Journal of Heat and Technology, 2017, 35, 123-129.	0.6	22
66	Thermal stability and dielectric properties of nano-SiO ₂ -doped cellulose. Applied Physics Letters, 2017, 111, .	3.3	21
67	Molecular Dynamics Simulations on the Thermal Decomposition of Meta-Aramid Fibers. Polymers, 2018, 10, 691.	4.5	21
68	Effect of water on the diffusion of small molecular weight acids in nano-SiO ₂ modified insulating oil. Journal of Molecular Liquids, 2020, 314, 113670.	4.9	21
69	Molecular dynamics simulations of the effect of shape and size of SiO ₂ nanoparticle dopants on insulation paper cellulose. AIP Advances, 2016, 6, .	1.3	20
70	Preparation Nano-Structure Polytetrafluoroethylene (PTFE) Functional Film on the Cellulose Insulation Polymer and Its Effect on the Breakdown Voltage and Hydrophobicity Properties. Materials, 2018, 11, 851.	2.9	20
71	Sensing Characteristics of Toxic Câ„Fâ„N Decomposition Products on Metallic- Nanoparticle Co-Doped BN Monolayer: A First Principles Study. IEEE Sensors Journal, 2021, 21, 13082-13089.	4.7	20
72	Simulation of the diffusion behavior of water molecules in palm oil and mineral oil at different temperatures. Renewable Energy, 2021, 174, 909-917.	8.9	20

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73	The Effect and Associate Mechanism of Nano SiO ₂ Particles on the Diffusion Behavior of Water in Insulating Oil. <i>Materials</i> , 2018, 11, 2373.	2.9	19
74	DFT study of SF ₆ decomposed products on Pd@TiO ₂ : gas sensing mechanism study. <i>Adsorption</i> , 2019, 25, 1643-1653.	3.0	19
75	Gas sensing of graphene and graphene oxide nanoplatelets to ClO ₂ and its decomposed species. <i>Superlattices and Microstructures</i> , 2019, 135, 106248.	3.1	19
76	Ab Initio Study of SOF ₂ and SO ₂ F ₂ Adsorption on Co-MoS ₂ . <i>ACS Omega</i> , 2019, 4, 2517-2522.	3.5	19
77	Theoretical study of SF ₆ decomposition products adsorption on metal oxide cluster-modified single-layer graphene. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 105, 278-290.	5.8	19
78	Identification of Power Transformer Winding Mechanical Fault Types Based on Online IFRA by Support Vector Machine. <i>Energies</i> , 2017, 10, 2022.	3.1	18
79	The influence and mechanism of nano Al ₂ O ₃ to the thermal stability of cellulose insulation paper. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2015, 45, 1167-1179.	0.5	16
80	Transition metal oxides (NiO, SnO ₂ , In ₂ O ₃) modified graphene: A promising candidate to detect and scavenge CO, C ₂ H ₂ , and CH ₄ gases. <i>Diamond and Related Materials</i> , 2022, 123, 108856.	3.9	15
81	A DFT study of adsorption properties of SO ₂ , SOF ₂ , and SO ₂ F ₂ on ZnO/CuO doped graphene. <i>Diamond and Related Materials</i> , 2022, 126, 109103.	3.9	15
82	Study on the characteristic decomposition components of air-insulated switchgear cabinet under partial discharge. <i>AIP Advances</i> , 2016, 6, .	1.3	14
83	Improvement of thermal stability of insulation paper cellulose by modified polysiloxane grafting. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	14
84	Thermal Stability of Modified Insulation Paper Cellulose Based on Molecular Dynamics Simulation. <i>Energies</i> , 2017, 10, 397.	3.1	14
85	Research on Acetylene Sensing Properties and Mechanism of SnO ₂ -Based Chemical Gas Sensor Decorated with Sm ₂ O ₃ . <i>Journal of Nanotechnology</i> , 2015, 2015, 1-7.	3.4	13
86	Terahertz Time Domain Spectroscopy of Transformer Insulation Paper after Thermal Aging Intervals. <i>Materials</i> , 2018, 11, 2124.	2.9	13
87	Differences analysis of water molecular diffusion behaviors in vegetable oil and mineral oil under temperature field. <i>Journal of Molecular Liquids</i> , 2021, 323, 115030.	4.9	13
88	Adsorption property of CO, NO, and NO ₂ gas molecules on Co ₃ -MoSe ₂ monolayer. <i>Sensors and Actuators A: Physical</i> , 2021, 319, 112547.	4.1	13
89	The Effect of PMMA Pore-Forming on Hydrogen Sensing Properties of Porous SnO ₂ Thick Film Sensor. <i>Science of Advanced Materials</i> , 2017, 9, 1350-1355.	0.7	13
90	Adsorption property of Co, Rh, and Pd-embedded g-C ₃ N ₄ monolayer to SO ₂ F ₂ gas. <i>Journal of Materials Research and Technology</i> , 2021, 15, 4790-4799.	5.8	13

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91	Influence of humidity and voltage on characteristic decomposition components under needle-plate discharge model. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2633-2640.	2.9	12
92	Analysis of nano-SiO ₂ affecting the acids diffusion in the interface between oil and cellulose paper. Chemical Physics, 2020, 529, 110557.	1.9	12
93	Adsorption and sensing performances of ZnO-g-C ₃ N ₄ monolayer toward SF ₆ decomposition products. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114909.	2.7	12
94	Influence of Polymethylsilsesquioxane Content to the Thermal Stability of Meta-Aramid Fiber Insulation Paper. Materials, 2018, 11, 2317.	2.9	11
95	Effects of Different Grafting Density of Amino Silane Coupling Agents on Thermomechanical Properties of Cross-Linked Epoxy Resin. Polymers, 2020, 12, 1662.	4.5	11
96	Simulation effect of SiO ₂ nanoparticles on the water molecules diffusion inside insulating oil at different temperatures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 610, 125738.	4.7	11
97	Gas-Sensing Properties of Cu ₂ S@MoSe ₂ Nanosheets to NO ₂ and NH ₃ Gases. ACS Omega, 2021, 6, 16517-16523.	3.5	11
98	Electronic properties of Ptn (n=4, 13, 15) nanoclusters decorated MoSe ₂ monolayer and its effect on C ₂ H ₂ adsorption: First principles study. Applied Surface Science, 2021, 563, 150375.	6.1	11
99	Reactive Molecular Dynamics Study of Effects of Small-Molecule Organic Acids on PMIA Thermal Decomposition. Journal of Physical Chemistry B, 2018, 122, 10384-10392.	2.6	10
100	Molecular dynamics simulation on the distribution and diffusion of different sulfides in oil-paper insulation systems. Journal of Molecular Liquids, 2020, 314, 113678.	4.9	10
101	The space charge behaviors of insulation paper immersed by mineral oil and MIDEL 7131 after thermal ageing. , 2016, , .		9
102	A Novel Method for the Deterioration State Evaluation of Mineral Insulating Oil by THz Time-Domain Spectroscopy. IEEE Access, 2019, 7, 71167-71173.	4.2	9
103	Equivalent Broadband Electrical Circuit of Synchronous Machine Winding for Frequency Response Analysis Based on Gray Box Model. IEEE Transactions on Energy Conversion, 2021, 36, 3512-3521.	5.2	9
104	Adsorption and gas-sensing properties of Pdn-GaNNTs to C ₂ H ₂ and H ₂ gases. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 136, 115004.	2.7	9
105	Density functional theory study of Pd, Pt, and Au modified GeSe for adsorption and sensing of dissolved gases in transformer oil. Surfaces and Interfaces, 2022, 31, 101994.	3.0	9
106	Influence of oil aging on the space charge dynamics of oil-immersed paper insulation under a DC electric field. IEEE Transactions on Electrical and Electronic Engineering, 2015, 10, 1-11.	1.4	8
107	Improved Winding Mechanical Fault Type Classification Methods Based on Polar Plots and Multiple Support Vector Machines. IEEE Access, 2020, 8, 216271-216282.	4.2	8
108	Adsorption behaviors of SF ₆ decomposition gas on Ni-doped ZIF-8:A first-principles study. Vacuum, 2021, 187, 110131.	3.5	8

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109	First-principles study of the adsorption behavior and sensing properties of C ₂ H ₄ and C ₂ H ₆ molecules on (CuO/TiO ₂) _n (n=1-3) cluster modified MoTe ₂ monolayer. <i>Surfaces and Interfaces</i> , 2022, 31, 102003.	3.0	8
110	Detection of Dissolved Carbon Monoxide in Transformer Oil Using 1.567-µm Diode Laser-Based Photoacoustic Spectroscopy. <i>Journal of Spectroscopy</i> , 2015, 2015, 1-7.	1.3	7
111	Thermal stability improvement of polysiloxane-grafted insulating paper cellulose in micro-water environment. <i>AIP Advances</i> , 2018, 8, .	1.3	7
112	Co, Rh decorated GaNNTs for online monitoring of characteristic decomposition products in oil-immersed transformer. <i>Applied Surface Science</i> , 2021, 561, 150072.	6.1	7
113	A new type of mixed vegetable insulating oil with better kinematic viscosity and oxidation stability. <i>Journal of Molecular Liquids</i> , 2022, 360, 119512.	4.9	7
114	Space charge dynamics in oil-impregnated pressboard under AC electric field. , 2015, , .		6
115	First-Principles Study on the Potential of Monolayer Ti ₂ N as an Adsorbent for Dissolved H ₂ and C ₂ H ₂ Gases in Oil. <i>ACS Applied Nano Materials</i> , 2020, 3, 12346-12354.	5.0	6
116	First-Principles Calculations of Gas-Sensing Properties of Pd Clusters Decorated AlNNTs to Dissolved Gases in Transformer Oil. <i>IEEE Access</i> , 2020, 8, 162692-162700.	4.2	6
117	The Effect of Nano-Silica Modified With Silane Coupling Agents on the Diffusion Behavior of Water Molecules in Palm Oil Based on Molecular Simulation. <i>IEEE Access</i> , 2021, 9, 82213-82220.	4.2	6
118	Nano-Modified Meta-Aramid Insulation Paper with Advanced Thermal, Mechanical, and Electrical Properties. <i>Processes</i> , 2022, 10, 78.	2.8	6
119	Molecular Simulation of Improved Mechanical Properties and Thermal Stability of Insulation Paper Cellulose by Modification with Silane-Coupling-Agent-Grafted Nano-SiO ₂ . <i>Processes</i> , 2021, 9, 766.	2.8	5
120	Effect of different contents of nano-SiO ₂ particles on water diffusion behavior in insulating oil. <i>AIP Advances</i> , 2019, 9, 105022.	1.3	4
121	Reactive molecular dynamics research on influences of water on aging characteristics of PMIA insulation paper. <i>Journal of Applied Physics</i> , 2020, 127, 105107.	2.5	4
122	Effect of Aminosilane Coupling Agent-Modified Nano-SiO ₂ Particles on Thermodynamic Properties of Epoxy Resin Composites. <i>Processes</i> , 2021, 9, 771.	2.8	4
123	Adsorption and gas sensing properties of CuO modified MoSe ₂ to C ₃ F ₇ CN decomposition products. <i>Materials Today Communications</i> , 2021, 28, 102677.	1.9	4
124	Novel Characteristic Quantities for Determining the Moisture State of Oil-Impregnated Cellulose Insulation Using the Extended Debye Model. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2022, 29, 1087-1094.	2.9	4
125	Gas-Sensing Property of TM-MoTe ₂ Monolayer towards SO ₂ , SOF ₂ , and HF Gases. <i>Molecules</i> , 2022, 27, 3176.	3.8	4
126	Multi frequency ultrasonic detection of water content in transformer oil with GA-BPNN. , 2018, , .		3

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127	Insulating Paper Cellulose with High Mechanical Performance and Low Polarizability: The Effect of Doping Concentration on Polyhedral Oligomeric Silsesquioxanes-Modified Cellulose. <i>Advanced Engineering Materials</i> , 2021, 23, 2100022.	3.5	3
128	First principles analysis of SO ₂ , H ₂ S adsorbed on Fe-ZnS surface. <i>Sensors and Actuators A: Physical</i> , 2021, 329, 112827.	4.1	3
129	Adsorption of Greenhouse Decomposition Products on Ag ₂ O-Sn ₂ and Cu ₂ O-Sn ₂ Surfaces. <i>ACS Omega</i> , 2022, 7, 21043-21051.	3.5	3
130	Molecular dynamics simulation of grafting and modification of insulation paper cellulose. , 2016, , .		2
131	Effect of nano-SiO ₂ particles modified by 3-aminopropyltriethoxy silane on mechanical properties and thermal stability of meta-aramid insulation paper. <i>Molecular Simulation</i> , 2021, 47, 1349-1357.	2.0	1
132	Analysis on the thermal stability of the amorphous region in insulation paper. , 2013, , .		0
133	Research on thickness ratio and multilayers effect on the oil and paper space charge distribution. , 2016, , .		0
134	Space and Interface Charge Simulation of Oil-Paper Insulation with Multi-Layer Oil Gap and Insulation Pressboard. , 2018, , .		0
135	Influence of Pd Clusters Doping on Gas Sensing Properties of TiO ₂ (101) Nanotubes to SF ₆ Decomposition Products. <i>IEEE Access</i> , 2020, 8, 205282-205288.	4.2	0
136	Molecular Dynamics Study on Kinematic Viscosity of Peanut Oil Methyl Ester. , 2021, , .		0
137	A comparative simulation: Difference between chemical grafting and physical doping of cellulose by using polysilsesquioxane. <i>Chinese Journal of Chemical Physics</i> , 2021, 34, 165-172.	1.3	0
138	Interfacial interactions between different metal oxides and dibenzyl disulfide in mineral insulating oil. <i>Journal of Molecular Liquids</i> , 2022, 347, 118359.	4.9	0
139	Thermal Analysis of the Transformer Bushings Subjected to Harmonic Voltages and Currents. , 2020, , .		0
140	TiO ₂ nanotubes based gas-sensing materials for SF ₆ decomposition products detection: A review. , 2020, , .		0
141	Modeling the Inverse Problem of Dielectric Response of Oil-impregnated-paper Insulation. , 2020, , .		0