

Detian Li

List of Publications by Year in descending order

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28
papers

262
citations

840776

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15
g-index

28
all docs

28
docs citations

28
times ranked

194
citing authors

#	ARTICLE	IF	CITATIONS
1	Miniature capacitance diaphragm gauge for absolute vacuum measurement. Measurement: Journal of the International Measurement Confederation, 2022, 194, 110851.	5.0	4
2	Design and fabrication of a differential pressure MEMS capacitance diaphragm gauge based on heavily boron-doping technique. Vacuum, 2021, 184, 109880.	3.5	7
3	Applications of Vacuum Measurement Technology in China's Space Programs. Space: Science & Technology, 2021, 2021, .	2.5	4
4	Design and fabrication of an absolute pressure MEMS capacitance vacuum sensor based on silicon bonding technology. Vacuum, 2021, 186, 110065.	3.5	15
5	A Cylindrical Triode Ultrahigh Vacuum Ionization Gauge with a Carbon Nanotube Cathode. Nanomaterials, 2021, 11, 1636.	4.1	1
6	Differential MEMS capacitance diaphragm vacuum gauge with high sensitivity and wide range. Vacuum, 2021, 191, 110367.	3.5	12
7	Prediction of erosion characteristics of polyimide with different defect shape pairs based on Monte Carlo method. Materials Today Communications, 2021, 28, 102638.	1.9	2
8	A touch mode MEMS capacitance diaphragm gauge. Measurement: Sensors, 2021, 18, 100171.	1.7	3
9	Miniature touch mode capacitance vacuum gauge with circular diaphragm. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2021, 39, .	1.2	3
10	Design and Fabrication of a MEMS Capacitance Vacuum Sensor Based on Silicon Buffer Block. Journal of Microelectromechanical Systems, 2020, 29, 1556-1562.	2.5	10
11	Design and experiment of a touch mode MEMS capacitance vacuum gauge with square diaphragm. Sensors and Actuators A: Physical, 2020, 313, 112154.	4.1	19
12	Residual Gas Adsorption and Desorption in the Field Emission of Titanium-Coated Carbon Nanotubes. Materials, 2019, 12, 2937.	2.9	6
13	Analysis on edge effect of MEMS capacitance diaphragm gauge with square pressure-sensing diaphragm. Microsystem Technologies, 2019, 25, 2907-2914.	2.0	13
14	Design of pressure-sensing diaphragm for MEMS capacitance diaphragm gauge considering size effect. AIP Advances, 2018, 8, .	1.3	13
15	Synthesis and field electron emission properties of multi-walled carbon nanotube films directly grown on catalytic stainless steel substrate. Vacuum, 2018, 149, 195-199.	3.5	15
16	Development of an CNT field emission UHV ionization gauge with customized electronics. AIP Advances, 2018, 8, .	1.3	3
17	Miniature vacuum leak element made with porous nickel sheet. Vacuum, 2018, 158, 146-151.	3.5	2
18	A numerical solution of density distribution function of water adsorption sites on vacuum technical metal surfaces. Vacuum, 2017, 136, 14-19.	3.5	10

#	ARTICLE	IF	CITATIONS
19	Metrological properties of an ionization gauge with carbon nanotube cathode in different gases. Vacuum, 2016, 125, 222-226.	3.5	6
20	Wide-range Vacuum Measurements from MWNT Field Emitters Grown Directly on Stainless Steel Substrates. Nanoscale Research Letters, 2016, 11, 5.	5.7	10
21	New leak element using anodic aluminum oxide. Vacuum, 2016, 131, 111-114.	3.5	13
22	Hydrogen sensing characteristics from carbon nanotube field emissions. Nanoscale, 2016, 8, 5599-5604.	5.6	22
23	First-principles study of structural and work function properties for nitrogen-doped single-walled carbon nanotubes. Applied Surface Science, 2016, 368, 477-482.	6.1	17
24	Improved field emission properties of carbon nanotubes grown on stainless steel substrate and its application in ionization gauge. Applied Surface Science, 2016, 365, 10-18.	6.1	31
25	An overview of ionization gauges with carbon nanotube cathodes. Journal Physics D: Applied Physics, 2015, 48, 473001.	2.8	14
26	Study on Vacuum Materials Outgassing Rate Using the Method of Switching Between Two Pumping Paths. Mapan - Journal of Metrology Society of India, 2014, 29, 229-234.	1.5	2
27	Quantification of the Lifetime and Reliability of Dual-Mode Ion Thrusters. Journal of Aerospace Technology and Management, 0, 14, .	0.3	1
28	Roll-to-roll fabrication of large-scale polyorgansiloxane thin film with high flexibility and ultra-efficient atomic oxygen resistance. Plasma Science and Technology, 0, , .	1.5	4