

# Detian Li

## List of Publications by Year in descending order

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28  
papers

262  
citations

840776

11  
h-index

996975

15  
g-index

28  
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28  
docs citations

28  
times ranked

194  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved field emission properties of carbon nanotubes grown on stainless steel substrate and its application in ionization gauge. <i>Applied Surface Science</i> , 2016, 365, 10-18.	6.1	31
2	Hydrogen sensing characteristics from carbon nanotube field emissions. <i>Nanoscale</i> , 2016, 8, 5599-5604.	5.6	22
3	Design and experiment of a touch mode MEMS capacitance vacuum gauge with square diaphragm. <i>Sensors and Actuators A: Physical</i> , 2020, 313, 112154.	4.1	19
4	First-principles study of structural and work function properties for nitrogen-doped single-walled carbon nanotubes. <i>Applied Surface Science</i> , 2016, 368, 477-482.	6.1	17
5	Synthesis and field electron emission properties of multi-walled carbon nanotube films directly grown on catalytic stainless steel substrate. <i>Vacuum</i> , 2018, 149, 195-199.	3.5	15
6	Design and fabrication of an absolute pressure MEMS capacitance vacuum sensor based on silicon bonding technology. <i>Vacuum</i> , 2021, 186, 110065.	3.5	15
7	An overview of ionization gauges with carbon nanotube cathodes. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 473001.	2.8	14
8	New leak element using anodic aluminum oxide. <i>Vacuum</i> , 2016, 131, 111-114.	3.5	13
9	Design of pressure-sensing diaphragm for MEMS capacitance diaphragm gauge considering size effect. <i>AIP Advances</i> , 2018, 8, .	1.3	13
10	Analysis on edge effect of MEMS capacitance diaphragm gauge with square pressure-sensing diaphragm. <i>Microsystem Technologies</i> , 2019, 25, 2907-2914.	2.0	13
11	Differential MEMS capacitance diaphragm vacuum gauge with high sensitivity and wide range. <i>Vacuum</i> , 2021, 191, 110367.	3.5	12
12	Wide-range Vacuum Measurements from MWNT Field Emitters Grown Directly on Stainless Steel Substrates. <i>Nanoscale Research Letters</i> , 2016, 11, 5.	5.7	10
13	A numerical solution of density distribution function of water adsorption sites on vacuum technical metal surfaces. <i>Vacuum</i> , 2017, 136, 14-19.	3.5	10
14	Design and Fabrication of a MEMS Capacitance Vacuum Sensor Based on Silicon Buffer Block. <i>Journal of Microelectromechanical Systems</i> , 2020, 29, 1556-1562.	2.5	10
15	Design and fabrication of a differential pressure MEMS capacitance diaphragm gauge based on heavily boron-doping technique. <i>Vacuum</i> , 2021, 184, 109880.	3.5	7
16	Metrological properties of an ionization gauge with carbon nanotube cathode in different gases. <i>Vacuum</i> , 2016, 125, 222-226.	3.5	6
17	Residual Gas Adsorption and Desorption in the Field Emission of Titanium-Coated Carbon Nanotubes. <i>Materials</i> , 2019, 12, 2937.	2.9	6
18	Applications of Vacuum Measurement Technology in China's Space Programs. <i>Space: Science &amp; Technology</i> , 2021, 2021, .	2.5	4

#	ARTICLE	IF	CITATIONS
19	Miniature capacitance diaphragm gauge for absolute vacuum measurement. Measurement: Journal of the International Measurement Confederation, 2022, 194, 110851.	5.0	4
20	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
21	Development of an CNT field emission UHV ionization gauge with customized electronics. AIP Advances, 2018, 8, .	1.3	3
22	A touch mode MEMS capacitance diaphragm gauge. Measurement: Sensors, 2021, 18, 100171.	1.7	3
23	Miniature touch mode capacitance vacuum gauge with circular diaphragm. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2021, 39, .	1.2	3
24	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
25	Miniature vacuum leak element made with porous nickel sheet. Vacuum, 2018, 158, 146-151.	3.5	2
26	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
27	A Cylindrical Triode Ultrahigh Vacuum Ionization Gauge with a Carbon Nanotube Cathode. Nanomaterials, 2021, 11, 1636.	4.1	1
28	Quantification of the Lifetime and Reliability of Dual-Mode Ion Thrusters. Journal of Aerospace Technology and Management, 0, 14, .	0.3	1