

Marc Debliquy

List of Publications by Year in descending order

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68
papers

2,986
citations

117625

34
h-index

161849

54
g-index

68
all docs

68
docs citations

68
times ranked

2855
citing authors

#	ARTICLE	IF	CITATIONS
1	Room temperature WO ₃ -Bi ₂ WO ₆ sensors based on hierarchical microflowers for ppb-level H ₂ S detection. <i>Chemical Engineering Journal</i> , 2022, 430, 132813.	12.7	11
2	Low concentration isopropanol gas sensing properties of Ag nanoparticles decorated In ₂ O ₃ hollow spheres. <i>Journal of Advanced Ceramics</i> , 2022, 11, 379-391.	17.4	56
3	Room-temperature gas sensors based on titanium dioxide quantum dots for highly sensitive and selective H ₂ S detection. <i>Applied Surface Science</i> , 2022, 585, 152744.	6.1	20
4	Low Thermal Conductivity Adhesive as a Key Enabler for Compact, Low-Cost Packaging for Metal-Oxide Gas Sensors. <i>IEEE Access</i> , 2022, 10, 19242-19253.	4.2	4
5	Stability of Metal Oxide Semiconductor Gas Sensors: A Review. <i>IEEE Sensors Journal</i> , 2022, 22, 5470-5481.	4.7	56
6	Role of cobalt in Co-ZnO nanoflower gas sensors for the detection of low concentration of VOCs. <i>Sensors and Actuators B: Chemical</i> , 2022, 360, 131674.	7.8	19
7	Room temperature gas sensors based on Ce doped TiO ₂ nanocrystals for highly sensitive NH ₃ detection. <i>Chemical Engineering Journal</i> , 2022, 444, 136449.	12.7	74
8	Investigation on isopropanol sensing properties of LnFeO ₃ (Ln = Nd, Dy, Er) perovskite materials synthesized by microwave-assisted hydrothermal method. <i>Applied Surface Science</i> , 2022, 601, 154292.	6.1	10
9	Facile synthesis of bismuth ferrite nanoparticles for ppm-level isopropanol gas sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 18507-18521.	2.2	3
10	Synthesis and NH ₃ /TMA sensing properties of CuFe ₂ O ₄ hollow microspheres at low working temperature. <i>Rare Metals</i> , 2021, 40, 1768-1777.	7.1	33
11	A novel low-concentration isopropanol gas sensor based on Fe-doped ZnO nanoneedles and its gas sensing mechanism. <i>Journal of Materials Science</i> , 2021, 56, 3230-3245.	3.7	38
12	Microwave-assisted hydrothermal synthesis of copper oxide-based gas-sensitive nanostructures. <i>Rare Metals</i> , 2021, 40, 1477-1493.	7.1	48
13	A Review on Functionalized Graphene Sensors for Detection of Ammonia. <i>Sensors</i> , 2021, 21, 1443.	3.8	61
14	Comprehensive SPME-GC-MS Analysis of VOC Profiles Obtained Following High-Temperature Heating of Pork Back Fat with Varying Boar Taint Intensities. <i>Foods</i> , 2021, 10, 1311.	4.3	8
15	Past, present, and future trends in boar taint detection. <i>Trends in Food Science and Technology</i> , 2021, 112, 283-297.	15.1	12
16	An ammonia sensor composed of polypyrrole synthesized on reduced graphene oxide by electropolymerization. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127423.	7.8	64
17	Synthesis and acetone sensing properties of copper (Cu ²⁺) substituted zinc ferrite hollow micro-nanospheres. <i>Ceramics International</i> , 2020, 46, 28835-28843.	4.8	20
18	Micro-nano structured functional coatings deposited by liquid plasma spraying. <i>Journal of Advanced Ceramics</i> , 2020, 9, 517-534.	17.4	39

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19	Ammonia Sensor Based on Vapor Phase Polymerized Polypyrrole. <i>Chemosensors</i> , 2020, 8, 38.	3.6	14
20	Metal oxide semiconductors with highly concentrated oxygen vacancies for gas sensing materials: A review. <i>Sensors and Actuators A: Physical</i> , 2020, 309, 112026.	4.1	126
21	Non-enzymatic D-glucose plasmonic optical fiber grating biosensor. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111506.	10.1	77
22	Chemical Sensors for VOC Detection in Indoor Air: Focus on Formaldehyde. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2019, , 47-70.	0.5	0
23	Chemically deposited palladium nanoparticles on graphene for hydrogen sensor applications. <i>Scientific Reports</i> , 2019, 9, 3653.	3.3	57
24	Room temperature conductive type metal oxide semiconductor gas sensors for NO ₂ detection. <i>Sensors and Actuators A: Physical</i> , 2019, 289, 118-133.	4.1	143
25	Visible light enhanced black NiO sensors for ppb-level NO ₂ detection at room temperature. <i>Ceramics International</i> , 2019, 45, 4253-4261.	4.8	63
26	Room-temperature NO ₂ gas sensors based on rGO@ZnO _{1-x} composites: Experiments and molecular dynamics simulation. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 690-702.	7.8	97
27	Graphene-enhanced metal oxide gas sensors at room temperature: a review. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2832-2844.	2.8	126
28	A Fast and Room-Temperature Operation Ammonia Sensor Based on Compound of Graphene With Polypyrrole. <i>IEEE Sensors Journal</i> , 2018, 18, 9088-9096.	4.7	39
29	Optical Fibre NO ₂ Sensor Based on Lutetium Bisphthalocyanine in a Mesoporous Silica Matrix. <i>Sensors</i> , 2018, 18, 740.	3.8	8
30	Surface plasmon resonance sensing in gaseous media with optical fiber gratings. <i>Optics Letters</i> , 2018, 43, 2308.	3.3	40
31	Molecularly imprinted electropolymerization on a metal-coated optical fiber for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 1145-1151.	7.8	61
32	Preparation and characterization of Cu _x O _{1-y} @ZnO _{1-\hat{z}} nanocomposites for enhanced room-temperature NO ₂ sensing applications. <i>Applied Surface Science</i> , 2017, 401, 248-255.	6.1	26
33	Light assisted room-temperature NO ₂ sensors with enhanced performance based on black SnO _{1-\hat{z}} @ZnO _{1-\hat{z}} @SnO _{2-\hat{z}} nanocomposite coatings deposited by solution precursor plasma spray. <i>Ceramics International</i> , 2017, 43, 5990-5998.	4.8	18
34	Flexible NO ₂ gas sensors based on sheet-like hierarchical ZnO _{1-\hat{z}} coatings deposited on polypropylene papers by suspension flame spraying. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 75, 280-286.	5.3	22
35	Hydrogen sensors based on noble metal doped metal-oxide semiconductor: A review. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 20386-20397.	7.1	213
36	Room-temperature nitrogen-dioxide sensors based on ZnO _{1-\hat{z}} coatings deposited by solution precursor plasma spray. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 102-111.	7.8	65

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37	A Formaldehyde Sensor Based on Molecularly-Imprinted Polymer on a TiO ₂ Nanotube Array. <i>Sensors</i> , 2017, 17, 675.	3.8	55
38	Light-Assisted Room-Temperature NO ₂ Sensors Based on Black Sheet-Like NiO. <i>Proceedings (mdpi)</i> , 2017, 1, 412.	0.2	0
39	Room Temperature NO ₂ Responses of Visible-Light Activated Nanosheet rGO@ZnO _{1-x} Sensors. <i>Proceedings (mdpi)</i> , 2017, 1, 411.	0.2	2
40	Nanostructured TiO ₂ Layers for Photovoltaic and Gas Sensing Applications. , 2016, , .		3
41	Cadmium sulfide activated zinc oxide coatings deposited by liquid plasma spray for room temperature nitrogen dioxide detection under visible light illumination. <i>Ceramics International</i> , 2016, 42, 4845-4852.	4.8	57
42	Reversible NO ₂ Optical Fiber Chemical Sensor Based on LuPc2 Using Simultaneous Transmission of UV and Visible Light. <i>Sensors</i> , 2015, 15, 9870-9881.	3.8	12
43	Room temperature nitrogen dioxide sensors based on N719-dye sensitized amorphous zinc oxide sensors performed under visible-light illumination. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 69-77.	7.8	56
44	Microstructure and gas sensing properties of solution precursor plasma-sprayed zinc oxide coatings. <i>Materials Research Bulletin</i> , 2015, 63, 67-71.	5.2	30
45	Solution precursor plasma-sprayed tungsten oxide coatings for nitrogen dioxide detection. <i>Ceramics International</i> , 2014, 40, 11427-11431.	4.8	25
46	Surface Plasmon Resonances in Oriented Silver Nanowire Coatings on Optical Fibers. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11035-11042.	3.1	42
47	Sensing mechanism of hydrogen sensors based on palladium-loaded tungsten oxide (Pd@WO ₃). <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 84-93.	7.8	78
48	Room temperature responses of visible-light illuminated WO ₃ sensors to NO ₂ in sub-ppm range. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 395-401.	7.8	129
49	Optimization of synthesis parameters of mesoporous silica sol-gel thin films for application on 2024 aluminum alloy substrates. <i>Applied Surface Science</i> , 2013, 277, 201-210.	6.1	21
50	Sensitive and rapid hydrogen sensors based on Pd@WO ₃ thick films with different morphologies. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2565-2577.	7.1	82
51	H ₂ sensors based on WO ₃ thin films activated by platinum nanoparticles synthesized by electroless process. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2929-2935.	7.1	52
52	N719-dye sensitized amorphous zinc oxide films for NO ₂ detection under visible-light illumination. , 2013, , .		1
53	Nitrogen dioxide sensor based on optical fiber coated with a porous silica matrix incorporating lutetium bisphthalocyanine. , 2013, , .		2
54	High-refractive-index transparent coatings enhance the optical fiber cladding modes refractometric sensitivity. <i>Optics Express</i> , 2013, 21, 29073.	3.4	45

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55	SO ₂ Gas Sensors based on WO ₃ Nanostructures with Different Morphologies. <i>Procedia Engineering</i> , 2012, 47, 1033-1036.	1.2	37
56	Visible Light Activated Tungsten Oxide Sensors for NO ₂ Detection at Room Temperature. <i>Procedia Engineering</i> , 2012, 47, 116-119.	1.2	11
57	Sensing properties of Pt/Pd activated tungsten oxide films grown by simultaneous radio-frequency sputtering to reducing gases. <i>Sensors and Actuators B: Chemical</i> , 2012, 175, 53-59.	7.8	30
58	Hydrothermal Synthesis of Two Dimensional WO ₃ Nanostructures for NO ₂ Detection in the ppb-level. <i>Procedia Engineering</i> , 2012, 47, 228-231.	1.2	17
59	Improvement of sensing characteristics of radio-frequency sputtered tungsten oxide films through surface modification by laser irradiation. <i>Materials Chemistry and Physics</i> , 2012, 133, 588-591.	4.0	17
60	Study of selectivity of NO ₂ sensors composed of WO ₃ and MnO ₂ thin films grown by radio frequency sputtering. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 914-922.	7.8	30
61	Infrared radiation detector interrogated by optical frequency-domain reflectometer. <i>Optics and Lasers in Engineering</i> , 2012, 50, 308-311.	3.8	4
62	Magnetron sputtered tungsten oxide films activated by dip-coated platinum for ppm-level hydrogen detection. <i>Thin Solid Films</i> , 2012, 520, 3679-3683.	1.8	20
63	Hydrogen sensors based on Pd-doped WO ₃ nanostructures and the morphology investigation for their sensing performances optimization. <i>Procedia Engineering</i> , 2011, 25, 264-267.	1.2	8
64	Using co-sputtered platinum or palladium activated tungsten oxide films to detect reducing gases. <i>Procedia Engineering</i> , 2011, 25, 823-826.	1.2	1
65	Highly sensitive hydrogen sensors based on co-sputtered platinum-activated tungsten oxide films. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1107-1114.	7.1	71
66	Sensing properties of atmospheric plasma-sprayed WO ₃ coating for sub-ppm NO ₂ detection. <i>Sensors and Actuators B: Chemical</i> , 2010, 144, 280-288.	7.8	140
67	Deposition and microstructure characterization of atmospheric plasma-sprayed ZnO coatings for NO ₂ detection. <i>Applied Surface Science</i> , 2010, 256, 5905-5910.	6.1	54
68	Hybrid fiber gratings coated with a catalytic sensitive layer for hydrogen sensing in air. <i>Optics Express</i> , 2008, 16, 16854.	3.4	83