Gabriele Magna

List of Publications by Year
in descending order

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56 papers	798 citations	516215 16 h-index	525886 27 g-index
58 all docs	58 docs citations	58 times ranked	852 citing authors

#	Article	IF	Citations
1	Gas-Sensitive Photoconductivity of Porphyrin-Functionalized ZnO Nanorods. Journal of Physical Chemistry C, 2012, 116, 9151-9157.	1.5	90
2	An adaptive classification model based on the Artificial Immune System for chemical sensor drift mitigation. Sensors and Actuators B: Chemical, 2013, 177, 1017-1026.	4.0	53
3	The Assembly of Porphyrin Systems in Well-Defined Nanostructures: An Update. Molecules, 2019, 24, 4307.	1.7	47
4	Chiral Selectivity of Porphyrinâ€“ZnO Nanoparticle Conjugates. ACS Applied Materials & Interfaces, 2019, 11, 12077-12087.	4.0	42
5	The influence of gas adsorption on photovoltage in porphyrin coated ZnO nanorods. Journal of Materials Chemistry, 2012, 22, 20032.	6.7	40
6	Cooperative classifiers for reconfigurable sensor arrays. Sensors and Actuators B: Chemical, 2014, 199, 83-92.	4.0	37
7	The light enhanced gas selectivity of one-pot grown porphyrins coated ZnO nanorods. Sensors and Actuators B: Chemical, 2013, 188, 475-481.	4.0	33
8	Identification of mammography anomalies for breast cancer detection by an ensemble of classification models based on artificial immune system. Knowledge-Based Systems, 2016, 101, 60-70.	4.0	32
9	Surface arrangement dependent selectivity of porphyrins gas sensors. Sensors and Actuators B: Chemical, 2017, 251, 524-532.	4.0	30
10	The influence of film morphology and illumination conditions on the sensitivity of porphyrins-coated ZnO nanorods. Analytica Chimica Acta, 2014, 810, 86-93.	2.6	27
11	Porphyrin-Functionalized Zinc Oxide Nanostructures for Sensor Applications. Sensors, 2018, 18, 2279.	2.1	25
12	Recent Advances in Chemical Sensors Using Porphyrin-Carbon Nanostructure Hybrid Materials. Nanomaterials, 2021, 11, 997.	1.9	21
13	Unsupervised On-Line Selection of Training Features for a robust classification with drifting and faulty gas sensors. Sensors and Actuators B: Chemical, 2018, 258, 1242-1251.	4.0	20
14	Light-Activated Porphyrinoid-Capped Nanoparticles for Gas Sensing. ACS Applied Nano Materials, 2021, 4, 414-424.	2.4	19
15	Interaction of VOCs with pyrene tetratopic ligands layered on ZnO nanorods under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 324, 62-69.	2.0	17
16	Conductive Photo-Activated Porphyrin-ZnO Nanostructured Gas Sensor Array. Sensors, 2017, 17, 747.	2.1	17
17	Advances in Optical Sensors for Persistent Organic Pollutant Environmental Monitoring. Sensors, 2022, 22, 2649.	2.1	17
18	Combining porphyrins and pH indicators for analyte detection. Analytical and Bioanalytical Chemistry, 2015, 407, 3975-3984.	1.9	16

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19	Porphyrins for olfaction mimic: The Rome Tor Vergata approach. Journal of Porphyrins and Phthalocyanines, 2017, 21, 769-781.	0.4	15
20	Self-Repairing classification algorithms for chemical sensor array. Sensors and Actuators B: Chemical, 2019, 297, 126721.	4.0	15
21	Stable Odor Recognition by a neuro-adaptive Electronic Nose. Scientific Reports, 2015, 5, 10960.	1.6	14
22	Î²â€Acroleinâ€Substituted Corroles: A Route to the Preparation of Functionalized Polyacrolein Microspheres for Chemical Sensor Applications. Chemistry - A European Journal, 2017, 23, 14819-14826.	1.7	14
23	Experimental determination of the mass sensitivity of quartz microbalances coated by an optical dye. Sensors and Actuators B: Chemical, 2020, 320, 128373.	4.0	14
24	Kinetic and spectroscopic studies on the chiral self-aggregation of amphiphilic zinc and copper (<scp>l</scp>)-prolinate-tetraarylporphyrin derivatives in different aqueous media. Organic and Biomolecular Chemistry, 2019, 17, 1113-1120.	1.5	12
25	The Self-Aggregation of Porphyrins with Multiple Chiral Centers in Organic/Aqueous Media: The Case of Sugar- and Steroid-Porphyrin Conjugates. Molecules, 2020, 25, 4544.	1.7	11
26	Adaptive classification model based on artificial immune system for breast cancer detection. , 2015, , .		10
27	Porphyrins Through the Looking Glass: Spectroscopic and Mechanistic Insights in Supramolecular Chirogenesis of New Self-Assembled Porphyrin Derivatives. Frontiers in Chemistry, 2020, 8, 587842.	1.8	10
28	Combinatorial selectivity with an array of phthalocyanines functionalized TiO₂/ZnO heterojunction thin film sensors. Nanotechnology, 2022, 33, 075503.	1.3	10
29	Room Temperature CO Detection by Hybrid Porphyrin-ZnO Nanoparticles. Procedia Engineering, 2015, 120, 71-74.	1.2	9
30	Sharing data processing among replicated optical sensor arrays. Sensors and Actuators B: Chemical, 2013, 179, 252-258.	4.0	6
31	Robust classification of biological samples in atomic force microscopy images via multiple filtering cooperation. Knowledge-Based Systems, 2017, 133, 221-233.	4.0	6
32	Chirality induction to achiral molecules by silicaâ€coated chiral molecular assemblies. Chirality, 2021, 33, 494-505.	1.3	6
33	Sensor-Embedded Face Masks for Detection of Volatiles in Breath: A Proof of Concept Study. Chemosensors, 2021, 9, 356.	1.8	6
34	Gas Sensitivity of Blends of Metalloporphyrins and Colorimetric Acid-Base Indicators. Procedia Engineering, 2011, 25, 1413-1416.	1.2	5
35	Grafting Copper and Gallium Corroles onto Zinc Oxide Nanoparticles. ChemPlusChem, 2019, 84, 154-160.	1.3	5
36	Tunable Supramolecular Chirogenesis in the Self-Assembling of Amphiphilic Porphyrin Triggered by Chiral Amines. International Journal of Molecular Sciences, 2020, 21, 8557.	1.8	5

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37	Gas Effect On The Surface Photovoltage Of Porphyrin Functionalized ZnO Nanorods. Advanced Materials Letters, 2012, 3, 442-448.	0.3	5
38	An On-line Reconfigurable Classification Algorithm Improves the Long-term Stability of Gas Sensor Arrays in Case of Faulty and Drifting Sensors. Procedia Engineering, 2015, 120, 249-252.	1.2	4
39	Tuning the morphology of mesoscopic structures of porphyrin macrocycles functionalized by an antimicrobial peptide. Journal of Porphyrins and Phthalocyanines, 2020, 24, 920-928.	0.4	4
40	The strength in Numbers! Porphyrin hybrid nanostructured materials for chemical sensing. Dalton Transactions, 2021, 50, 5724-5731.	1.6	4
41	Seeding Chiral Ensembles of Prolinated Porphyrin Derivatives on Glass Surface: Simple and Rapid Access to Chiral Porphyrin Films. Frontiers in Chemistry, 2021, 9, 804893.	1.8	4
42	Monocarboxy Tetraphenylporphyrin functionalized ZnO nanorods photoactivated gas sensor. Procedia Engineering, 2011, 25, 1333-1336.	1.2	3
43	Drift Correction in a Porphyrin-coated ZnO Nanorods Gas Sensor. Procedia Engineering, 2014, 87, 608-611.	1.2	3
44	Porphyrinoids coated silica nanoparticles capacitive sensors for COVID-19 detection from the analysis of blood serum volatolome. Sensors and Actuators B: Chemical, 2022, 369, 132329.	4.0	3
45	Facile sensors replacement in optical gas sensors array. Procedia Engineering, 2011, 25, 35-38.	1.2	2
46	Gas Sensitivity of the Surface Potential of Hybrid Porphyrin-ZnO Nanorods. Procedia Engineering, 2012, 47, 446-449.	1.2	2
47	An Ensemble of Adaptive Classifiers for Improving Faulty and Drifting Sensor Performance. Procedia Engineering, 2012, 47, 1275-1278.	1.2	2
48	Automatic Fault Identification and On-line Unsupervised Calibration of Replaced Sensors by Means of Cooperative Classifiers. Procedia Engineering, 2014, 87, 855-858.	1.2	2
49	Indicators Blends Extend the Receptive Field of Colorimetric Chemical Sensors. Procedia Engineering, 2012, 47, 1189-1190.	1.2	1
50	The gas sensing properties of one-pot prepared porphyrin-ZnO nanoparticles. , 2015, , .		1
51	Polythiophene based fluorimetric insight into minute styrene concentration in solution and gas phase. Optical Materials, 2022, 123, 111848.	1.7	1
52	Photo-assisted chemical sensors. Proceedings of SPIE, 2014, , .	0.8	0
53	Interaction of Pyrene Ligands with Neat and Defective Two Dimensional ZnO: A First Principles Study. MRS Advances, 2017, 2, 2799-2805.	0.5	0
54	Enhance of Sensitivity of Corrole Functionalized Polymeric Microspheres Coated Quartz Microbalances. Proceedings (mdpi), 2017, 1, 406.	0.2	0

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55	Gas Sensing with Porphyrin Functionalized Metal Oxide Nanostructures. Proceedings (mdpi), 2019, 14, 28.	0.2	0
56	The Chemical Sensitivity of Hybrid Porphyrin Materials. ECS Meeting Abstracts, 2022, MA2022-01, 939-939.	0.0	0