

Stella Vallejos

List of Publications by Year in descending order

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72
papers

2,095
citations

236925

25
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233421

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72
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72
docs citations

72
times ranked

2326
citing authors

#	ARTICLE	IF	CITATIONS
1	Au nanoparticle-functionalised WO ₃ nanoneedles and their application in high sensitivity gas sensor devices. <i>Chemical Communications</i> , 2011, 47, 565-567.	4.1	204
2	Raman and XPS studies of ammonia sensitive polypyrrole nanorods and nanoparticles. <i>Scientific Reports</i> , 2019, 9, 8465.	3.3	162
3	Aerosol-Assisted CVD-Grown WO ₃ Nanoneedles Decorated with Copper Oxide Nanoparticles for the Selective and Humidity-Resilient Detection of H ₂ S. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6842-6851.	8.0	161
4	Single-Step Deposition of Au and Pt Nanoparticle-Functionalized Tungsten Oxide Nanoneedles Synthesized Via Aerosol-Assisted CVD, and Used for Fabrication of Selective Gas Microsensor Arrays. <i>Advanced Functional Materials</i> , 2013, 23, 1313-1322.	14.9	143
5	AACVD Synthesis and Characterization of Iron and Copper Oxides Modified ZnO Structured Films. <i>Nanomaterials</i> , 2020, 10, 471.	4.1	125
6	Aerosol-Assisted CVD-Grown PdO Nanoparticle-Decorated Tungsten Oxide Nanoneedles Extremely Sensitive and Selective to Hydrogen. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10413-10421.	8.0	93
7	Gold clusters on WO ₃ nanoneedles grown via AACVD: XPS and TEM studies. <i>Materials Chemistry and Physics</i> , 2012, 134, 809-813.	4.0	83
8	Nanoscale Heterostructures Based on Fe ₂ O ₃ @WO _{3-x} Nanoneedles and Their Direct Integration into Flexible Transducing Platforms for Toluene Sensing. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18638-18649.	8.0	79
9	Micro-machined WO ₃ -based sensors selective to oxidizing gases. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 209-215.	7.8	77
10	Ozone monitoring by micro-machined sensors with WO ₃ sensing films. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 573-578.	7.8	53
11	Micromachined gas sensors based on tungsten oxide nanoneedles directly integrated via aerosol assisted CVD. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 210-218.	7.8	53
12	Chemical Vapour Deposition of Gas Sensitive Metal Oxides. <i>Chemosensors</i> , 2016, 4, 4.	3.6	52
13	VOCs Sensing by Metal Oxides, Conductive Polymers, and Carbon-Based Materials. <i>Nanomaterials</i> , 2021, 11, 552.	4.1	50
14	Chemoresistive micromachined gas sensors based on functionalized metal oxide nanowires: Performance and reliability. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 525-534.	7.8	44
15	ZnO Rods with Exposed {100} Facets Grown via a Self-Catalyzed Vapor-Solid Mechanism and Their Photocatalytic and Gas Sensing Properties. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33335-33342.	8.0	42
16	Important considerations for effective gas sensors based on metal oxide nanoneedles films. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 406-413.	7.8	39
17	Aerosol assisted chemical vapour deposition of gas sensitive SnO ₂ and Au-functionalised SnO ₂ nanorods via a non-catalysed vapour solid (VS) mechanism. <i>Scientific Reports</i> , 2016, 6, 28464.	3.3	37
18	Aerosol Assisted Chemical Vapour Deposition Control Parameters for Selective Deposition of Tungsten Oxide Nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 8214-8220.	0.9	36

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19	Gas sensitive ZnO structures with reduced humidity-interference. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127054.	7.8	35
20	Detection of volatile organic compounds using flexible gas sensing devices based on tungsten oxide nanostructures functionalized with Au and Pt nanoparticles. <i>Talanta</i> , 2015, 139, 27-34.	5.5	34
21	Love wave sensors based on gold nanoparticle-modified polypyrrole and their properties to ammonia and ethylene. <i>Sensors and Actuators B: Chemical</i> , 2020, 304, 127337.	7.8	33
22	Gas sensing properties of WO ₃ thin films deposited by rf sputtering. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 400-405.	7.8	31
23	Microsensors based on Pt nanoparticle functionalised tungsten oxide nanoneedles for monitoring hydrogen sulfide. <i>RSC Advances</i> , 2014, 4, 1489-1495.	3.6	30
24	A novel route to Pt-Bi ₂ O ₃ composite thin films and their application in photo-reduction of water. <i>Inorganica Chimica Acta</i> , 2012, 380, 328-335.	2.4	27
25	Aerosol assisted chemical vapour deposition of gas-sensitive nanomaterials. <i>Thin Solid Films</i> , 2013, 548, 703-709.	1.8	26
26	Aerosol-Assisted CVD of SnO ₂ Thin Films for Gas Sensor Applications. <i>Chemical Vapor Deposition</i> , 2011, 17, 247-252.	1.3	25
27	Localized aerosol-assisted CVD of nanomaterials for the fabrication of monolithic gas sensor microarrays. <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 374-383.	7.8	23
28	Cadmium telluride/polypyrrole nanocomposite based Love wave sensors highly sensitive to acetone at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128573.	7.8	21
29	p-Type PdO nanoparticles supported on n-type WO ₃ nanoneedles for hydrogen sensing. <i>Thin Solid Films</i> , 2016, 618, 238-245.	1.8	20
30	Love Wave Sensors with Silver Modified Polypyrrole Nanoparticles for VOCs Monitoring. <i>Sensors</i> , 2020, 20, 1432.	3.8	20
31	UV-light activated APTES modified WO _{3-x} nanowires sensitive to ethanol and nitrogen dioxide. <i>Sensors and Actuators B: Chemical</i> , 2021, 328, 129046.	7.8	20
32	Micro-machined WO ₃ -based sensors with improved characteristics. <i>Sensors and Actuators B: Chemical</i> , 2009, 140, 356-362.	7.8	19
33	Selectively arranged single-wire based nanosensor array systems for gas monitoring. <i>Nanoscale</i> , 2018, 10, 9087-9096.	5.6	19
34	Microfabrication of flexible gas sensing devices based on nanostructured semiconducting metal oxides. <i>Sensors and Actuators A: Physical</i> , 2014, 219, 88-93.	4.1	16
35	Highly hydrogen sensitive micromachined sensors based on aerosol-assisted chemical vapor deposited ZnO rods. <i>Sensors and Actuators B: Chemical</i> , 2018, 268, 15-21.	7.8	16
36	Photoactivated materials and sensors for NO ₂ monitoring. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16804-16827.	5.5	16

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37	Cerium Oxide-Tungsten Oxide Core-Shell Nanowire-Based Microsensors Sensitive to Acetone. Biosensors, 2018, 8, 116.	4.7	14
38	Catalyst-Free Vapor-Phase Method for Direct Integration of Gas Sensing Nanostructures with Polymeric Transducing Platforms. Journal of Nanomaterials, 2014, 2014, 1-9.	2.7	11
39	ZnO Structures with Surface Nanoscale Interfaces Formed by Au, Fe ₂ O ₃ , or Cu ₂ O Modifier Nanoparticles: Characterization and Gas Sensing Properties. Sensors, 2021, 21, 4509.	3.8	10
40	Micromachined Gas Sensors Based on Au-functionalized SnO ₂ Nanorods Directly Integrated without Catalyst Seeds via AA-CVD. Procedia Engineering, 2016, 168, 1078-1081.	1.2	8
41	Influence of Mg Doping Levels on the Sensing Properties of SnO ₂ Films. Sensors, 2020, 20, 2158.	3.8	8
42	Technology of metal oxide thin film deposition with interruptions. Surface and Coatings Technology, 2007, 202, 453-459.	4.8	7
43	Characterization and gas sensing properties of intrinsic and Au-doped WO ₃ nanostructures deposited by AACVD technique. Procedia Engineering, 2010, 5, 131-134.	1.2	7
44	CO and H ₂ Sensing with CVD-Grown Tungsten Oxide Nanoneedles Decorated with Au, Pt or Cu Nanoparticles. Procedia Engineering, 2012, 47, 904-907.	1.2	7
45	Aerosol-assisted Chemical Vapor Deposition of Metal Oxide Structures: Zinc Oxide Rods. Journal of Visualized Experiments, 2017, , .	0.3	7
46	Gas Sensors Based on Porous Ceramic Bodies of MSnO ₃ Perovskites (M = Ba, Ca, Zn): Formation and Sensing Properties towards Ethanol, Acetone, and Toluene Vapours. Molecules, 2022, 27, 2889.	3.8	6
47	AA-CVD growth and ethanol sensing properties of pure and metal decorated WO ₃ nanoneedles. International Journal of Nanotechnology, 2013, 10, 455.	0.2	4
48	Single-step co-deposition of nanostructured tungsten oxide supported gold nanoparticles using a gold-phosphine cluster complex as the gold precursor. Science and Technology of Advanced Materials, 2014, 15, 065004.	6.1	4
49	Microelectrode array systems for their use in single nanowire-based gas sensor platforms. Journal of Electrical Engineering, 2017, 68, 158-162.	0.7	4
50	Polypyrrole Based Love-Wave Gas Sensor Devices with Enhanced Properties to Ammonia. Proceedings (mdpi), 2018, 2, .	0.2	4
51	Electrochemically deposited polypyrrole nanorods and study of their ammonia sensing properties. Materials Today: Proceedings, 2020, 20, 305-310.	1.8	4
52	Localized heating to tungsten oxide nanostructures deposition on gas microsensor arrays via aerosol assisted CVD. , 2013, , .		3
53	Tuning of the Humidity-Interference in Gas Sensitive Columnar ZnO Structures. Proceedings (mdpi), 2017, 1, 417.	0.2	3
54	High-Performance Ammonia Sensor at Room Temperature Based on a Love-Wave Device with Fe ₂ O ₃ @WO ₃ Nanoneedles. Proceedings (mdpi), 2017, 1, .	0.2	3

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55	Sensors: Single-Step Deposition of Au- and Pt-Nanoparticle-Functionalized Tungsten Oxide Nanoneedles Synthesized Via Aerosol-Assisted CVD, and Used for Fabrication of Selective Gas Microsensor Arrays (Adv. Funct. Mater. 10/2013). Advanced Functional Materials, 2013, 23, 1226-1226.	14.9	2
56	Ferric Oxide Nanoparticle-functionalized Tungsten Oxide Nanoneedles and their Gas Sensing Properties. Procedia Engineering, 2015, 120, 443-446.	1.2	2
57	ZnO-based Gas Microsensors Sensitive to CO at Room Temperature by Photoactivation. Procedia Engineering, 2016, 168, 415-418.	1.2	2
58	Gas Microsensors Based on Cerium Oxide Modified Tungsten Oxide Nanowires. , 2018, , .		2
59	Room Temperature Ethanol Microsensors Based on Silanized Tungsten Oxide Nanowires. Proceedings (mdpi), 2018, 2, 790.	0.2	2
60	One-Dimensional Metal Oxide Nanostructures for Chemical Sensors. , 0, , .		2
61	Benzene detection on nanostructured tungsten oxide MEMS based gas sensors. , 2012, , .		1
62	Pt/WO ₃ microsensor grown by cold wall reactor Aerosol Assisted Chemical Vapor Deposition for C ₆ H ₆ and NO ₂ detection. , 2014, , .		1
63	Micromachined sensors based on ZnO structures and their thermo- and photo-activated response to reducing gases. , 2017, , .		1
64	Gas Sensing Characterization of Single-Nanowire Sensor Array Systems Based on Non-Functionalized and Pt-Functionalized Tungsten Oxide. Proceedings (mdpi), 2017, 1, .	0.2	1
65	Nanosensor array systems based on single functional wires selectively integrated and their sensing properties to C ₂ H ₆ O and NO ₂ . , 2017, , .		1
66	Sensors and Micro and Nano Technologies for the Food Sector. , 2013, , .		0
67	Flexible gas sensing devices with directly grown tungsten oxide nanoneedles via AACVD. , 2015, , .		0
68	VOC-sensitive structures with nanoscale heterojunctions based on WO _{3-x} nanoneedles and Fe ₂ O ₃ nanoparticles. Monatshefte für Chemie, 2017, 148, 1921-1927.	1.8	0
69	Gold/polypyrrole nanorods for gas sensing application. , 2017, , .		0
70	Comparative Studies of Chemoresistive Gas Sensors Based on Multiple Randomly Connected Wires and Arrays of Single-Wires. Proceedings (mdpi), 2018, 2, .	0.2	0
71	ZnO Nanorods and Their Modification with Au Nanoparticles for UV-light Activated Gas Sensing. , 2021, , .		0
72	Ga interaction with ZnO surfaces: Diffusion and melt-back etching. Applied Surface Science, 2022, 583, 152475.	6.1	0