

# Joan R Morante

## List of Publications by Year in descending order

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838  
papers

30,212  
citations

3721

89  
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11581

135  
g-index

854  
all docs

854  
docs citations

854  
times ranked

26415  
citing authors

#	ARTICLE	IF	CITATIONS
1	The complete Raman spectrum of nanometric SnO <sub>2</sub> particles. Journal of Applied Physics, 2001, 90, 1550-1557.	1.1	686
2	Structural and optical properties of high quality zinc-blende/wurtzite GaAs nanowire heterostructures. Physical Review B, 2009, 80, .	1.1	434
3	Recent developments in organic redox flow batteries: A critical review. Journal of Power Sources, 2017, 360, 243-283.	4.0	396
4	Self-assembled quantum dots in a nanowire system for quantum photonics. Nature Materials, 2013, 12, 439-444.	13.3	306
5	Effects of Nb doping on the TiO <sub>2</sub> anatase-to-rutile phase transition. Journal of Applied Physics, 2002, 92, 853-861.	1.1	301
6	In-depth resolved Raman scattering analysis for the identification of secondary phases: Characterization of Cu <sub>2</sub> ZnSnS <sub>4</sub> layers for solar cell applications. Applied Physics Letters, 2011, 98, .	1.5	287
7	Analysis of the noble metal catalytic additives introduced by impregnation of as obtained SnO <sub>2</sub> sol-gel nanocrystals for gas sensors. Sensors and Actuators B: Chemical, 2000, 70, 87-100.	4.0	286
8	Nucleation mechanism of gallium-assisted molecular beam epitaxy growth of gallium arsenide nanowires. Applied Physics Letters, 2008, 92, .	1.5	261
9	Influence of average size and interface passivation on the spectral emission of Si nanocrystals embedded in SiO <sub>2</sub> . Journal of Applied Physics, 2002, 91, 798-807.	1.1	259
10	Cr-doped TiO <sub>2</sub> gas sensor for exhaust NO <sub>2</sub> monitoring. Sensors and Actuators B: Chemical, 2003, 93, 509-518.	4.0	241
11	Synthesis and Characterization of Chromium-Doped Mesoporous Tungsten Oxide for Gas Sensing Applications. Advanced Functional Materials, 2007, 17, 1801-1806.	7.8	241
12	Review of zinc-based hybrid flow batteries: From fundamentals to applications. Materials Today Energy, 2018, 8, 80-108.	2.5	224
13	Raman spectroscopy of wurtzite and zinc-blende GaAs nanowires: Polarization dependence, selection rules, and strain effects. Physical Review B, 2009, 80, .	1.1	222
14	High mobility indium free amorphous oxide thin film transistors. Applied Physics Letters, 2008, 92, .	1.5	210
15	Bi <sub>2</sub> O <sub>3</sub> as a selective sensing material for NO detection. Sensors and Actuators B: Chemical, 2004, 99, 74-89.	4.0	206
16	Vibrational properties of stannite and kesterite type compounds: Raman scattering analysis of Cu <sub>2</sub> (Fe,Zn)SnS <sub>4</sub> . Journal of Alloys and Compounds, 2012, 539, 190-194.	2.8	201
17	Cu <sub>2</sub> ZnGeSe <sub>4</sub> Nanocrystals: Synthesis and Thermoelectric Properties. Journal of the American Chemical Society, 2012, 134, 4060-4063.	6.6	199
18	Crystalline structure, defects and gas sensor response to NO <sub>2</sub> and H <sub>2</sub> S of tungsten trioxide nanopowders. Sensors and Actuators B: Chemical, 2003, 93, 475-485.	4.0	196

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19	Morphological analysis of nanocrystalline SnO <sub>2</sub> for gas sensor applications. Sensors and Actuators B: Chemical, 1996, 31, 1-8.	4.0	195
20	Equivalence between thermal and room temperature UV light-modulated responses of gas sensors based on individual SnO <sub>2</sub> nanowires. Sensors and Actuators B: Chemical, 2009, 140, 337-341.	4.0	195
21	Direct correlation of crystal structure and optical properties in wurtzite/zinc-blende GaAs nanowire heterostructures. Physical Review B, 2011, 83, .	1.1	193
22	Slightly hydrogenated TiO <sub>2</sub> with enhanced photocatalytic performance. Journal of Materials Chemistry A, 2014, 2, 12708-12716.	5.2	188
23	Gallium-Indium-Zinc-Oxide-Based Thin-Film Transistors: Influence of the Source/Drain Material. IEEE Transactions on Electron Devices, 2008, 55, 954-960.	1.6	185
24	Enhanced photoelectrochemical water splitting of hematite multilayer nanowire photoanodes by tuning the surface state via bottom-up interfacial engineering. Energy and Environmental Science, 2017, 10, 2124-2136.	15.6	185
25	Ultralow power consumption gas sensors based on self-heated individual nanowires. Applied Physics Letters, 2008, 93, .	1.5	184
26	Insights into the Structural and Chemical Modifications of Nb Additive on TiO <sub>2</sub> Nanoparticles. Chemistry of Materials, 2004, 16, 862-871.	3.2	182
27	The Role of Surface Oxygen Vacancies in the NO <sub>2</sub> Sensing Properties of SnO <sub>2</sub> Nanocrystals. Journal of Physical Chemistry C, 2008, 112, 19540-19546.	1.5	181
28	Nanostructured metal oxides synthesized by hard template method for gas sensing applications. Sensors and Actuators B: Chemical, 2005, 109, 57-63.	4.0	176
29	The effects of electron-hole separation on the photoconductivity of individual metal oxide nanowires. Nanotechnology, 2008, 19, 465501.	1.3	169
30	Mesoporous WO <sub>3</sub> photocatalyst for the partial oxidation of methane to methanol using electron scavengers. Applied Catalysis B: Environmental, 2015, 163, 150-155.	10.8	166
31	High response and stability in CO and humidity measures using a single SnO <sub>2</sub> nanowire. Sensors and Actuators B: Chemical, 2007, 121, 3-17.	4.0	165
32	Influence of the catalytic introduction procedure on the nano-SnO <sub>2</sub> gas sensor performances. Sensors and Actuators B: Chemical, 2001, 79, 98-106.	4.0	162
33	Raman Surface Vibration Modes in Nanocrystalline SnO <sub>2</sub> : Correlation with Gas Sensor Performances. Chemistry of Materials, 2005, 17, 893-901.	3.2	162
34	Photoelectrochemical water splitting: a road from stable metal oxides to protected thin film solar cells. Journal of Materials Chemistry A, 2020, 8, 10625-10669.	5.2	162
35	Polarity Assignment in ZnTe, GaAs, ZnO, and GaN-AlN Nanowires from Direct Dumbbell Analysis. Nano Letters, 2012, 12, 2579-2586.	4.5	161
36	Analysis of buried etch-stop layers in silicon by nitrogen-ion implantation. Journal of Micromechanics and Microengineering, 1993, 3, 143-145.	1.5	160

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37	The influence of film structure on In <sub>2</sub> O <sub>3</sub> gas response. <i>Thin Solid Films</i> , 2004, 460, 315-323.	0.8	155
38	Synthesis of Silicon Nanowires with Wurtzite Crystalline Structure by Using Standard Chemical Vapor Deposition. <i>Advanced Materials</i> , 2007, 19, 1347-1351.	11.1	155
39	Composition Control and Thermoelectric Properties of Quaternary Chalcogenide Nanocrystals: The Case of Stannite Cu <sub>2</sub> CdSnSe <sub>4</sub> . <i>Chemistry of Materials</i> , 2012, 24, 562-570.	3.2	153
40	Combined High Catalytic Activity and Efficient Polar Tubular Nanostructure in Urchin-Like Metallic NiCo <sub>2</sub> Se <sub>4</sub> for High-Performance Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1903842.	7.8	153
41	Engineering grain boundaries at the 2D limit for the hydrogen evolution reaction. <i>Nature Communications</i> , 2020, 11, 57.	5.8	153
42	Heterostructured p-CuO (nanoparticle)/n-SnO <sub>2</sub> (nanowire) devices for selective H <sub>2</sub> S detection. <i>Sensors and Actuators B: Chemical</i> , 2013, 181, 130-135.	4.0	148
43	From rational design of a new bimetallic MOF family with tunable linkers to OER catalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1616-1628.	5.2	148
44	What do you do, titanium? Insight into the role of titanium oxide as a water oxidation promoter in hematite-based photoanodes. <i>Energy and Environmental Science</i> , 2015, 8, 3242-3254.	15.6	147
45	Influence of Cu as a catalyst on the properties of silicon nanowires synthesized by the vapour-solid-solid mechanism. <i>Nanotechnology</i> , 2007, 18, 305606.	1.3	144
46	Prismatic Quantum Heterostructures Synthesized on Molecular-Beam Epitaxy GaAs Nanowires. <i>Small</i> , 2008, 4, 899-903.	5.2	142
47	Size dependence of lifetime and absorption cross section of Si nanocrystals embedded in SiO <sub>2</sub> . <i>Applied Physics Letters</i> , 2003, 82, 1595-1597.	1.5	139
48	Perovskite-type BaSnO <sub>3</sub> powders for high temperature gas sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2002, 84, 21-25.	4.0	138
49	Structural stability of indium oxide films deposited by spray pyrolysis during thermal annealing. <i>Thin Solid Films</i> , 2005, 479, 38-51.	0.8	137
50	Core-Shell Nanoparticles As Building Blocks for the Bottom-Up Production of Functional Nanocomposites: PbTe-PbS Thermoelectric Properties. <i>ACS Nano</i> , 2013, 7, 2573-2586.	7.3	137
51	Nucleation and growth of GaN nanorods on Si (111) surfaces by plasma-assisted molecular beam epitaxy - The influence of Si- and Mg-doping. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	136
52	Raman scattering and disorder effect in Cu <sub>2</sub> ZnSnS <sub>4</sub> . <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 258-261.	1.2	136
53	Fabrication and electrical characterization of circuits based on individual tin oxide nanowires. <i>Nanotechnology</i> , 2006, 17, 5577-5583.	1.3	135
54	GdBaCo <sub>2</sub> O <sub>5+x</sub> layered perovskite as an intermediate temperature solid oxide fuel cell cathode. <i>Journal of Power Sources</i> , 2007, 174, 255-263.	4.0	135

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55	Role of Tungsten Doping on the Surface States in BiVO <sub>4</sub> Photoanodes for Water Oxidation: Tuning the Electron Trapping Process. ACS Catalysis, 2018, 8, 3331-3342.	5.5	135
56	Role of Ga <sub>2</sub> O <sub>3</sub> –In <sub>2</sub> O <sub>3</sub> –ZnO channel composition on the electrical performance of thin-film transistors. Materials Chemistry and Physics, 2011, 131, 512-518.	2.0	134
57	Influence of surface Pd doping on gas sensing characteristics of SnO <sub>2</sub> thin films deposited by spray pyrolysis. Thin Solid Films, 2003, 436, 119-126.	0.8	133
58	Toward a Systematic Understanding of Photodetectors Based on Individual Metal Oxide Nanowires. Journal of Physical Chemistry C, 2008, 112, 14639-14644.	1.5	130
59	A Novel Mesoporous CaO–Loaded In <sub>2</sub> O <sub>3</sub> Material for CO <sub>2</sub> Sensing. Advanced Functional Materials, 2007, 17, 2957-2963.	7.8	129
60	Partial Oxidation of Methane to Methanol Using Bismuth-Based Photocatalysts. ACS Catalysis, 2014, 4, 3013-3019.	5.5	127
61	Tubular CoFeP@CN as a Mott–Schottky Catalyst with Multiple Adsorption Sites for Robust Lithium–Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2100432.	10.2	125
62	Micromachined twin gas sensor for CO and O <sub>2</sub> quantification based on catalytically modified nano-SnO <sub>2</sub> . Sensors and Actuators B: Chemical, 2006, 114, 881-892.	4.0	124
63	Active nano-CuPt <sub>3</sub> electrocatalyst supported on graphene for enhancing reactions at the cathode in all-vanadium redox flow batteries. Carbon, 2012, 50, 2372-2374.	5.4	124
64	Three-Dimensional Multiple-Order Twinning of Self-Catalyzed GaAs Nanowires on Si Substrates. Nano Letters, 2011, 11, 3827-3832.	4.5	123
65	Elucidation of the surface passivation role on the photoluminescence emission yield of silicon nanocrystals embedded in SiO <sub>2</sub> . Applied Physics Letters, 2002, 80, 1637-1639.	1.5	117
66	In <sub>2</sub> O <sub>3</sub> films deposited by spray pyrolysis as a material for ozone gas sensors. Sensors and Actuators B: Chemical, 2004, 99, 297-303.	4.0	117
67	Correlation between XPS, Raman and TEM measurements and the gas sensitivity of Pt and Pd doped SnO <sub>2</sub> based gas sensors. Fresenius' Journal of Analytical Chemistry, 1998, 361, 110-114.	1.5	116
68	An insight on the role of La in mesoporous WO <sub>3</sub> for the photocatalytic conversion of methane into methanol. Applied Catalysis B: Environmental, 2016, 187, 30-36.	10.8	116
69	A prototype reactor for highly selective solar-driven CO <sub>2</sub> reduction to synthesis gas using nanosized earth-abundant catalysts and silicon photovoltaics. Energy and Environmental Science, 2017, 10, 2256-2266.	15.6	116
70	Use of zeolite films to improve the selectivity of reactive gas sensors. Catalysis Today, 2003, 82, 179-185.	2.2	114
71	ZnSe/N-Doped Carbon Nanoreactor with Multiple Adsorption Sites for Stable Lithium–Sulfur Batteries. ACS Nano, 2020, 14, 15492-15504.	7.3	114
72	Strategies for enhancing electrochemical activity of carbon-based electrodes for all-vanadium redox flow batteries. Applied Energy, 2013, 109, 344-351.	5.1	112

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73	Metal Ions To Control the Morphology of Semiconductor Nanoparticles: Copper Selenide Nanocubes. Journal of the American Chemical Society, 2013, 135, 4664-4667.	6.6	112
74	Thermal and mechanical analysis of micromachined gas sensors. Journal of Micromechanics and Microengineering, 2003, 13, 548-556.	1.5	111
75	Morphology evolution of Cu <sub>2</sub> -xS nanoparticles: from spheres to dodecahedrons. Chemical Communications, 2011, 47, 10332.	2.2	107
76	Thermochemical treatments based on NH <sub>3</sub> /O <sub>2</sub> for improved graphite-based fiber electrodes in vanadium redox flow batteries. Carbon, 2013, 60, 280-288.	5.4	107
77	Effects of various metal additives on the gas sensing performances of TiO <sub>2</sub> nanocrystals obtained from hydrothermal treatments. Sensors and Actuators B: Chemical, 2005, 108, 34-40.	4.0	106
78	Electrical properties of individual tin oxide nanowires contacted to platinum electrodes. Physical Review B, 2007, 76, .	1.1	105
79	Synergistic effects in 3D honeycomb-like hematite nanoflakes/branched polypyrrole nanoleaves heterostructures as high-performance negative electrodes for asymmetric supercapacitors. Nano Energy, 2016, 22, 189-201.	8.2	102
80	NH <sub>3</sub> interaction with chromium-doped WO <sub>3</sub> nanocrystalline powders for gas sensing applications. Journal of Materials Chemistry, 2004, 14, 2412-2420.	6.7	100
81	InAs Quantum Dot Arrays Decorating the Facets of GaAs Nanowires. ACS Nano, 2010, 4, 5985-5993.	7.3	99
82	p-GaN/n-ZnO Heterojunction Nanowires: Optoelectronic Properties and the Role of Interface Polarity. ACS Nano, 2014, 8, 4376-4384.	7.3	99
83	Microstructure control of thermally stable TiO <sub>2</sub> obtained by hydrothermal process for gas sensors. Sensors and Actuators B: Chemical, 2004, 103, 312-317.	4.0	98
84	Nanoparticle engineering for gas sensor optimisation: improved sol-gel fabricated nanocrystalline SnO <sub>2</sub> thick film gas sensor for NO <sub>2</sub> detection by calcination, catalytic metal introduction and grinding treatments. Sensors and Actuators B: Chemical, 1999, 60, 125-137.	4.0	97
85	Nanocrystalline Metal Oxides from the Injection of Metal Oxide Sols in Coordinating Solutions: Synthesis, Characterization, Thermal Stabilization, Device Processing, and Gas-Sensing Properties. Advanced Functional Materials, 2006, 16, 1488-1498.	7.8	97
86	Insight into the Role of Oxygen Diffusion in the Sensing Mechanisms of SnO <sub>2</sub> Nanowires. Advanced Functional Materials, 2008, 18, 2990-2994.	7.8	96
87	Synthesis of perovskite-type BaSnO <sub>3</sub> particles obtained by a new simple wet chemical route based on a sol-gel process. Materials Letters, 2002, 56, 131-136.	1.3	95
88	Experimental and theoretical studies of indium oxide gas sensors fabricated by spray pyrolysis. Sensors and Actuators B: Chemical, 2005, 106, 563-571.	4.0	94
89	Defect study of SnO <sub>2</sub> nanostructures by cathodoluminescence analysis: Application to nanowires. Sensors and Actuators B: Chemical, 2007, 126, 6-12.	4.0	93
90	Mesoporous catalytic filters for semiconductor gas sensors. Thin Solid Films, 2003, 436, 64-69.	0.8	91

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91	Atomically dispersed Fe in a C <sub>2</sub> N Based Catalyst as a Sulfur Host for Efficient Lithium–Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003507.	10.2	91
92	Charge Exchange Processes during the Open-Circuit Deposition of Nickel on Silicon from Fluoride Solutions. <i>Journal of the Electrochemical Society</i> , 2000, 147, 1026.	1.3	90
93	Synthesis and electrochemical properties of 2D molybdenum vanadium carbides – solid solution MXenes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8957-8968.	5.2	90
94	The aging effect on SnO <sub>2</sub> –Au thin film sensors: electrical and structural characterization. <i>Thin Solid Films</i> , 2000, 371, 249-253.	0.8	89
95	Correlation between structural and optical properties of Si nanocrystals embedded in SiO <sub>2</sub> : The mechanism of visible light emission. <i>Applied Physics Letters</i> , 2000, 77, 3143-3145.	1.5	89
96	A new CO <sub>2</sub> gas sensing material. <i>Sensors and Actuators B: Chemical</i> , 2003, 95, 266-270.	4.0	89
97	Controlled Photocatalytic Oxidation of Methane to Methanol through Surface Modification of Beta Zeolites. <i>ACS Catalysis</i> , 2017, 7, 2878-2885.	5.5	89
98	NbSe <sub>2</sub> Meets C <sub>2</sub> N: A 2D–2D Heterostructure Catalysts as Multifunctional Polysulfide Mediator in Ultra–Long–Life Lithium–Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2101250.	10.2	89
99	Long range epitaxial growth of prismatic heterostructures on the facets of catalyst-free GaAs nanowires. <i>Journal of Materials Chemistry</i> , 2009, 19, 840.	6.7	88
100	Economic viability of SNG production from power and CO <sub>2</sub> . <i>Energy Conversion and Management</i> , 2018, 162, 218-224.	4.4	88
101	Strategies to enhance the carbon monoxide sensitivity of tin oxide thin films. <i>Sensors and Actuators B: Chemical</i> , 2003, 95, 90-96.	4.0	87
102	Vibrational and crystalline properties of polymorphic CuInC <sub>2</sub> (C=Se,S) chalcogenides. <i>Physical Review B</i> , 2005, 71, .	1.1	86
103	Ab initio study of NO <sub>x</sub> compounds adsorption on SnO <sub>2</sub> surface. <i>Sensors and Actuators B: Chemical</i> , 2007, 126, 62-67.	4.0	86
104	Influence of the (111) twinning on the formation of diamond cubic/diamond hexagonal heterostructures in Cu-catalyzed Si nanowires. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	86
105	Colloidal synthesis and thermoelectric properties of Cu <sub>2</sub> SnSe <sub>3</sub> nanocrystals. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1421-1426.	5.2	86
106	A High Conductivity 1D –d Conjugated Metal–Organic Framework with Efficient Polysulfide Trapping–Diffusion–Catalysis in Lithium–Sulfur Batteries. <i>Advanced Materials</i> , 2022, 34, e2108835.	11.1	86
107	Study of the CO and humidity interference in La doped tin oxide CO <sub>2</sub> gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2003, 94, 324-329.	4.0	84
108	Triple-twin domains in Mg doped GaN wurtzite nanowires: structural and electronic properties of this zinc-blende-like stacking. <i>Nanotechnology</i> , 2009, 20, 145704.	1.3	84



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109	Ultrasensitive binder-free glucose sensors based on the pyrolysis of in situ grown Cu MOF. Sensors and Actuators B: Chemical, 2018, 254, 272-281.	4.0	84
110	Insight on the SU-8 resist as passivation layer for transparent Ga <sub>2</sub> O <sub>3</sub> /In <sub>2</sub> O <sub>3</sub> /ZnO thin-film transistors. Journal of Applied Physics, 2010, 108, .	1.1	83
111	MoS <sub>2</sub> @NiO Composite Nanostructures: An Advanced Nonprecious Catalyst for Hydrogen Evolution Reaction in Alkaline Media. Advanced Functional Materials, 2019, 29, 1807562.	7.8	83
112	Surface activation by Pt-nanoclusters on titania for gas sensing applications. Materials Science and Engineering C, 2002, 19, 105-109.	3.8	82
113	High-temperature low-power performing micromachined suspended micro-hotplate for gas sensing applications. Sensors and Actuators B: Chemical, 2006, 114, 826-835.	4.0	81
114	Analysis of the catalytic activity and electrical characteristics of different modified SnO <sub>2</sub> layers for gas sensors. Sensors and Actuators B: Chemical, 2002, 84, 12-20.	4.0	79
115	Crystallographic Control at the Nanoscale To Enhance Functionality: Polytypic Cu <sub>2</sub> GeSe <sub>3</sub> Nanoparticles as Thermoelectric Materials. Chemistry of Materials, 2012, 24, 4615-4622.	3.2	79
116	Solvothermal, Chloroalkoxide-based Synthesis of Monoclinic WO <sub>3</sub> Quantum Dots and Gas-Sensing Enhancement by Surface Oxygen Vacancies. ACS Applied Materials & Interfaces, 2014, 6, 16808-16816.	4.0	78
117	Stable high-voltage aqueous pseudocapacitive energy storage device with slow self-discharge. Nano Energy, 2019, 64, 103961.	8.2	78
118	Influence on the gas sensor performances of the metal chemical states introduced by impregnation of calcinated SnO <sub>2</sub> sol-gel nanocrystals. Sensors and Actuators B: Chemical, 2000, 68, 94-99.	4.0	77
119	MicroRaman scattering from polycrystalline CuInS <sub>2</sub> films: structural analysis. Thin Solid Films, 2000, 361-362, 208-212.	0.8	77
120	On the role of individual metal oxide nanowires in the scaling down of chemical sensors. Physical Chemistry Chemical Physics, 2009, 11, 7105.	1.3	77
121	Measurement of residual stress by slot milling with focused ion-beam equipment. Journal of Micromechanics and Microengineering, 2006, 16, 254-259.	1.5	76
122	Ab initio calculations of NO <sub>2</sub> and SO <sub>2</sub> chemisorption onto non-polar ZnO surfaces. Sensors and Actuators B: Chemical, 2009, 142, 179-184.	4.0	76
123	Synthesis of nanocrystalline materials for SOFC applications by acrylamide polymerisation. Journal of Power Sources, 2003, 118, 256-264.	4.0	75
124	Polymorphism in CuInS <sub>2</sub> epilayers: Origin of additional Raman modes. Applied Physics Letters, 2002, 80, 562-564.	1.5	74
125	White luminescence from Si <sup>+</sup> and C <sup>+</sup> ion-implanted SiO <sub>2</sub> films. Journal of Applied Physics, 2003, 94, 254-262.	1.1	74
126	Influence of Cu-, Fe-, Co-, and Mn-oxide nanoclusters on sensing behavior of SnO <sub>2</sub> films. Thin Solid Films, 2004, 467, 209-214.	0.8	73



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127	In <sub>2</sub> O <sub>3</sub> films deposited by spray pyrolysis: gas response to reducing (CO, H <sub>2</sub> ) gases. Sensors and Actuators B: Chemical, 2004, 98, 122-129.	4.0	73
128	Suppression of three dimensional twinning for a 100% yield of vertical GaAs nanowires on silicon. Nanoscale, 2012, 4, 1486.	2.8	73
129	Self-Assembled GaN Nanowires on Diamond. Nano Letters, 2012, 12, 2199-2204.	4.5	73
130	Selective anodes for seawater splitting via functionalization of manganese oxides by a plasma-assisted process. Applied Catalysis B: Environmental, 2021, 284, 119684.	10.8	73
131	Improvement of oxygen storage capacity using mesoporous ceria-zirconia solid solutions. Applied Catalysis B: Environmental, 2011, 108-109, 32-38.	10.8	72
132	Efficient WO <sub>3</sub> photoanodes fabricated by pulsed laser deposition for photoelectrochemical water splitting with high faradaic efficiency. Applied Catalysis B: Environmental, 2016, 189, 133-140.	10.8	72
133	Improved selectivity for partial oxidation of methane to methanol in the presence of nitrite ions and BiVO <sub>4</sub> photocatalyst. Chemical Communications, 2015, 51, 7249-7252.	2.2	71
134	Optimization of tin dioxide nanosticks faceting for the improvement of palladium nanocluster epitaxy. Applied Physics Letters, 2002, 80, 329-331.	1.5	70
135	Catalyst-free nanowires with axial In <sub>x</sub> Ga <sub>1-x</sub> As <sub>y</sub> /GaAs heterostructures. Nanotechnology, 2009, 20, 075603.	1.3	70
136	Tailor-made metal-nitrogen-carbon bifunctional electrocatalysts for rechargeable Zn-air batteries via controllable MOF units. Energy Storage Materials, 2019, 17, 46-61.	9.5	70
137	Synthesis and Gas-Sensing Properties of Pd-Doped SnO <sub>2</sub> Nanocrystals. A Case Study of a General Methodology for Doping Metal Oxide Nanocrystals. Crystal Growth and Design, 2008, 8, 1774-1778.	1.4	69
138	Site of Er ions in silica layers codoped with Si nanoclusters and Er. Applied Physics Letters, 2006, 88, 121915.	1.5	68
139	Portable microsensors based on individual SnO <sub>2</sub> nanowires. Nanotechnology, 2007, 18, 495501.	1.3	68
140	Gallium assisted plasma enhanced chemical vapor deposition of silicon nanowires. Nanotechnology, 2009, 20, 155602.	1.3	68
141	Electrospun Black Titania Nanofibers: Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance. Journal of Physical Chemistry C, 2015, 119, 18835-18842.	1.5	68
142	Optical properties of silicon nanocrystal LEDs. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 16, 326-330.	1.3	67
143	Extending the Nanocrystal Synthesis Control to Quaternary Compositions. Crystal Growth and Design, 2012, 12, 1085-1090.	1.4	67
144	Analysis of ion beam induced damage and amorphization of 6H-SiC by raman scattering. Journal of Electronic Materials, 1996, 25, 541-547.	1.0	66

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145	Study of La and Cu influence on the growth inhibition and phase transformation of nano-TiO <sub>2</sub> used for gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2004, 100, 256-260.	4.0	66
146	Raman microprobe characterization of electrodeposited S-rich CuIn(S,Se) <sub>2</sub> for photovoltaic applications: Microstructural analysis. <i>Journal of Applied Physics</i> , 2007, 101, 103517.	1.1	66
147	Synthesis of SnO <sub>2</sub> and ZnO Colloidal Nanocrystals from the Decomposition of Tin(II) 2-Ethylhexanoate and Zinc(II) 2-Ethylhexanoate. <i>Chemistry of Materials</i> , 2005, 17, 6468-6472.	3.2	65
148	Location and catalytic role of iron species in TiO <sub>2</sub> :Fe photocatalysts: An EPR study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 211, 170-175.	2.0	65
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