

# Joan R Morante

## List of Publications by Citations

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774  
papers

25,256  
citations

85  
h-index

122  
g-index

854  
ext. papers

27,679  
ext. citations

5.5  
avg, IF

6.77  
L-index

#	Paper	IF	Citations
774	The complete Raman spectrum of nanometric SnO <sub>2</sub> particles. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 1550-1557	15.7	574
773	Structural and optical properties of high quality zinc-blende/wurtzite GaAs nanowire heterostructures. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	399
772	Recent developments in organic redox flow batteries: A critical review. <i>Journal of Power Sources</i> , <b>2017</b> , 360, 243-283	8.9	282
771	Effects of Nb doping on the TiO <sub>2</sub> anatase-to-rutile phase transition. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 853-861	2.5	279
770	Self-assembled quantum dots in a nanowire system for quantum photonics. <i>Nature Materials</i> , <b>2013</b> , 12, 439-44	27	278
769	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. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 181905	3.4	270
768	Analysis of the noble metal catalytic additives introduced by impregnation of as obtained SnO <sub>2</sub> sol-gel nanocrystals for gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2000</b> , 70, 87-100	8.5	258
767	Nucleation mechanism of gallium-assisted molecular beam epitaxy growth of gallium arsenide nanowires. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 063112	3.4	239
766	Influence of average size and interface passivation on the spectral emission of Si nanocrystals embedded in SiO <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 798-807	2.5	234
765	Synthesis and Characterization of Chromium-Doped Mesoporous Tungsten Oxide for Gas Sensing Applications. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 1801-1806	15.6	225
764	Cr-doped TiO <sub>2</sub> gas sensor for exhaust NO <sub>2</sub> monitoring. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 93, 509-518	3.8	215
763	Raman spectroscopy of wurtzite and zinc-blende GaAs nanowires: Polarization dependence, selection rules, and strain effects. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	194
762	High mobility indium free amorphous oxide thin film transistors. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 222103	3.4	193
761	Cu <sub>2</sub> ZnGeSe <sub>4</sub> nanocrystals: synthesis and thermoelectric properties. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 4060-3	16.4	182
760	Direct correlation of crystal structure and optical properties in wurtzite/zinc-blende GaAs nanowire heterostructures. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	181
759	Bi <sub>2</sub> O <sub>3</sub> as a selective sensing material for NO detection. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 99, 74-89	3.5	178
758	Vibrational properties of stannite and kesterite type compounds: Raman scattering analysis of Cu <sub>2</sub> (Fe,Zn)SnS <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 539, 190-194	5.7	177

757	Crystalline structure, defects and gas sensor response to NO <sub>2</sub> and H <sub>2</sub> S of tungsten trioxide nanopowders. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 93, 475-485	8.5	177
756	Equivalence between thermal and room temperature UV light-modulated responses of gas sensors based on individual SnO <sub>2</sub> nanowires. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 140, 337-341	8.5	169
755	. <i>IEEE Transactions on Electron Devices</i> , <b>2008</b> , 55, 954-960	2.9	169
754	Insights into the Structural and Chemical Modifications of Nb Additive on TiO <sub>2</sub> Nanoparticles. <i>Chemistry of Materials</i> , <b>2004</b> , 16, 862-871	9.6	167
753	Nanostructured metal oxides synthesized by hard template method for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 109, 57-63	8.5	165
752	Slightly hydrogenated TiO <sub>2</sub> with enhanced photocatalytic performance. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 12708-12716	13	164
751	Morphological analysis of nanocrystalline SnO <sub>2</sub> for gas sensor applications. <i>Sensors and Actuators B: Chemical</i> , <b>1996</b> , 31, 1-8	8.5	160
750	Ultralow power consumption gas sensors based on self-heated individual nanowires. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 123110	3.4	156
749	The Role of Surface Oxygen Vacancies in the NO <sub>2</sub> Sensing Properties of SnO <sub>2</sub> Nanocrystals. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 19540-19546	3.8	154
748	The effects of electron-hole separation on the photoconductivity of individual metal oxide nanowires. <i>Nanotechnology</i> , <b>2008</b> , 19, 465501	3.4	154
747	The influence of film structure on In <sub>2</sub> O <sub>3</sub> gas response. <i>Thin Solid Films</i> , <b>2004</b> , 460, 315-323	2.2	147
746	Influence of the catalytic introduction procedure on the nano-SnO <sub>2</sub> gas sensor performances. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 79, 98-106	8.5	147
745	Polarity assignment in ZnTe, GaAs, ZnO, and GaN-AlN nanowires from direct dumbbell analysis. <i>Nano Letters</i> , <b>2012</b> , 12, 2579-86	11.5	146
744	Raman Surface Vibration Modes in Nanocrystalline SnO <sub>2</sub> : Correlation with Gas Sensor Performances. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 893-901	9.6	141
743	Review of zinc-based hybrid flow batteries: From fundamentals to applications. <i>Materials Today Energy</i> , <b>2018</b> , 8, 80-108	7	137
742	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> , <b>2012</b> , 24, 562-570	9.6	137
741	Enhanced photoelectrochemical water splitting of hematite multilayer nanowire photoanodes by tuning the surface state via bottom-up interfacial engineering. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 2124-2136	35.4	136
740	Synthesis of Silicon Nanowires with Wurtzite Crystalline Structure by Using Standard Chemical Vapor Deposition. <i>Advanced Materials</i> , <b>2007</b> , 19, 1347-1351	24	136

739	Influence of Cu as a catalyst on the properties of silicon nanowires synthesized by the vapour-solid mechanism. <i>Nanotechnology</i> , <b>2007</b> , 18, 305606	3.4	132
738	High response and stability in CO and humidity measures using a single SnO <sub>2</sub> nanowire. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 121, 3-17	8.5	132
737	Size dependence of lifetime and absorption cross section of Si nanocrystals embedded in SiO <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1595-1597	3.4	131
736	Prismatic quantum heterostructures synthesized on molecular-beam epitaxy GaAs nanowires. <i>Small</i> , <b>2008</b> , 4, 899-903	11	129
735	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> , <b>2008</b> , 104, 034309	2.5	127
734	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> , <b>2013</b> , 181, 130-135	8.5	124
733	Toward a Systematic Understanding of Photodetectors Based on Individual Metal Oxide Nanowires. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 14639-14644	3.8	123
732	Core-shell nanoparticles as building blocks for the bottom-up production of functional nanocomposites: PbTe-PbS thermoelectric properties. <i>ACS Nano</i> , <b>2013</b> , 7, 2573-86	16.7	121
731	Influence of surface Pd doping on gas sensing characteristics of SnO <sub>2</sub> thin films deposited by spray pyrolysis. <i>Thin Solid Films</i> , <b>2003</b> , 436, 119-126	2.2	121
730	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> , <b>2007</b> , 174, 255-263	8.9	120
729	Structural stability of indium oxide films deposited by spray pyrolysis during thermal annealing. <i>Thin Solid Films</i> , <b>2005</b> , 479, 38-51	2.2	120
728	Raman scattering and disorder effect in Cu <sub>2</sub> ZnSnS <sub>4</sub> . <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2013</b> , 7, 258-261	2.5	119
727	Fabrication and electrical characterization of circuits based on individual tin oxide nanowires. <i>Nanotechnology</i> , <b>2006</b> , 17, 5577-83	3.4	118
726	A Novel Mesoporous CaO-Loaded In <sub>2</sub> O <sub>3</sub> Material for CO <sub>2</sub> Sensing. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 2957-2963	15.6	117
725	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> , <b>2015</b> , 8, 3242-3254	35.4	115
724	Active nano-CuPt <sub>3</sub> electrocatalyst supported on graphene for enhancing reactions at the cathode in all-vanadium redox flow batteries. <i>Carbon</i> , <b>2012</b> , 50, 2372-2374	10.4	114
723	Mesoporous WO <sub>3</sub> photocatalyst for the partial oxidation of methane to methanol using electron scavengers. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 163, 150-155	21.8	112
722	Three-dimensional multiple-order twinning of self-catalyzed GaAs nanowires on Si substrates. <i>Nano Letters</i> , <b>2011</b> , 11, 3827-32	11.5	112

7 <sup>21</sup>	Perovskite-type BaSnO <sub>3</sub> powders for high temperature gas sensor applications. <i>Sensors and Actuators B: Chemical</i> , <b>2002</b> , 84, 21-25	8.5	109
7 <sup>20</sup>	Elucidation of the surface passivation role on the photoluminescence emission yield of silicon nanocrystals embedded in SiO <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2002</b> , 80, 1637-1639	3.4	108
7 <sup>19</sup>	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. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 131, 512-518	4.4	106
7 <sup>18</sup>	Micromachined twin gas sensor for CO and O <sub>2</sub> quantification based on catalytically modified nano-SnO <sub>2</sub> . <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 114, 881-892	8.5	106
7 <sup>17</sup>	Use of zeolite films to improve the selectivity of reactive gas sensors. <i>Catalysis Today</i> , <b>2003</b> , 82, 179-185	5.3	104
7 <sup>16</sup>	Correlation between XPS, Raman and TEM measurements and the gas sensitivity of Pt and Pd doped SnO <sub>2</sub> based gas sensors. <i>Fresenius Journal of Analytical Chemistry</i> , <b>1998</b> , 361, 110-114		103
7 <sup>15</sup>	In <sub>2</sub> O <sub>3</sub> films deposited by spray pyrolysis as a material for ozone gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 99, 297-303	8.5	102
7 <sup>14</sup>	Metal ions to control the morphology of semiconductor nanoparticles: copper selenide nanocubes. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 4664-7	16.4	97
7 <sup>13</sup>	Electrical properties of individual tin oxide nanowires contacted to platinum electrodes. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	95
7 <sup>12</sup>	Effects of various metal additives on the gas sensing performances of TiO <sub>2</sub> nanocrystals obtained from hydrothermal treatments. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 108, 34-40	8.5	95
7 <sup>11</sup>	NH <sub>3</sub> interaction with chromium-doped WO <sub>3</sub> nanocrystalline powders for gas sensing applications. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 2412-2420		94
7 <sup>10</sup>	Thermal and mechanical analysis of micromachined gas sensors. <i>Journal of Micromechanics and Microengineering</i> , <b>2003</b> , 13, 548-556	2	93
7 <sup>09</sup>	p-GaN/n-ZnO heterojunction nanowires: optoelectronic properties and the role of interface polarity. <i>ACS Nano</i> , <b>2014</b> , 8, 4376-84	16.7	92
7 <sup>08</sup>	Morphology evolution of Cu(2-x)S nanoparticles: from spheres to dodecahedrons. <i>Chemical Communications</i> , <b>2011</b> , 47, 10332-4	5.8	92
7 <sup>07</sup>	Insight into the Role of Oxygen Diffusion in the Sensing Mechanisms of SnO <sub>2</sub> Nanowires. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 2990-2994	15.6	92
7 <sup>06</sup>	Analysis of buried etch-stop layers in silicon by nitrogen-ion implantation. <i>Journal of Micromechanics and Microengineering</i> , <b>1993</b> , 3, 143-145	2	92
7 <sup>05</sup>	Role of Tungsten Doping on the Surface States in BiVO <sub>4</sub> Photoanodes for Water Oxidation: Tuning the Electron Trapping Process. <i>ACS Catalysis</i> , <b>2018</b> , 8, 3331-3342	13.1	91
7 <sup>04</sup>	Synergistic effects in 3D honeycomb-like hematite nanoflakes/branched polypyrrole nanoleaves heterostructures as high-performance negative electrodes for asymmetric supercapacitors. <i>Nano Energy</i> , <b>2016</b> , 22, 189-201	17.1	91

703	InAs quantum dot arrays decorating the facets of GaAs nanowires. <i>ACS Nano</i> , <b>2010</b> , 4, 5985-93	16.7	91
702	Strategies for enhancing electrochemical activity of carbon-based electrodes for all-vanadium redox flow batteries. <i>Applied Energy</i> , <b>2013</b> , 109, 344-351	10.7	90
701	Thermochemical treatments based on NH <sub>3</sub> /O <sub>2</sub> for improved graphite-based fiber electrodes in vanadium redox flow batteries. <i>Carbon</i> , <b>2013</b> , 60, 280-288	10.4	90
700	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. <i>Sensors and Actuators B: Chemical</i> , <b>1999</b> , 60, 125-137	8.5	89
699	Microstructure control of thermally stable TiO <sub>2</sub> obtained by hydrothermal process for gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 103, 312-317	8.5	88
698	A prototype reactor for highly selective solar-driven CO <sub>2</sub> reduction to synthesis gas using nanosized earth-abundant catalysts and silicon photovoltaics. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 2256-2266	35.4	87
697	Nanocrystalline Metal Oxides from the Injection of Metal Oxide Sols in Coordinating Solutions: Synthesis, Characterization, Thermal Stabilization, Device Processing, and Gas-Sensing Properties. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 1488-1498	15.6	87
696	Photoelectrochemical water splitting: a road from stable metal oxides to protected thin film solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 10625-10669	13	86
695	Experimental and theoretical studies of indium oxide gas sensors fabricated by spray pyrolysis. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 106, 563-571	8.5	86
694	From rational design of a new bimetallic MOF family with tunable linkers to OER catalysts. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 1616-1628	13	85
693	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> , <b>2019</b> , 29, 1903842	15.6	85
692	Defect study of SnO <sub>2</sub> nanostructures by cathodoluminescence analysis: Application to nanowires. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 126, 6-12	8.5	85
691	Mesoporous catalytic filters for semiconductor gas sensors. <i>Thin Solid Films</i> , <b>2003</b> , 436, 64-69	2.2	85
690	Charge Exchange Processes during the Open-Circuit Deposition of Nickel on Silicon from Fluoride Solutions. <i>Journal of the Electrochemical Society</i> , <b>2000</b> , 147, 1026	3.9	85
689	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> , <b>2000</b> , 77, 3143-3145	3.4	85
688	Colloidal synthesis and thermoelectric properties of Cu <sub>2</sub> SnSe <sub>3</sub> nanocrystals. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 1421-1426	13	84
687	Partial Oxidation of Methane to Methanol Using Bismuth-Based Photocatalysts. <i>ACS Catalysis</i> , <b>2014</b> , 4, 3013-3019	13.1	83
686	Long range epitaxial growth of prismatic heterostructures on the facets of catalyst-free GaAs nanowires. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 840		83

685	A new CO <sub>2</sub> gas sensing material. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 95, 266-270	8.5	83
684	Ab initio study of NO <sub>x</sub> compounds adsorption on SnO <sub>2</sub> surface. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 126, 62-67	8.5	82
683	An insight on the role of La in mesoporous WO <sub>3</sub> for the photocatalytic conversion of methane into methanol. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 187, 30-36	21.8	81
682	Triple-twin domains in Mg doped GaN wurtzite nanowires: structural and electronic properties of this zinc-blende-like stacking. <i>Nanotechnology</i> , <b>2009</b> , 20, 145704	3.4	80
681	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> , <b>2008</b> , 104, 064312	2.5	77
680	Synthesis of perovskite-type BaSnO <sub>3</sub> particles obtained by a new simple wet chemical route based on a sol-gel process. <i>Materials Letters</i> , <b>2002</b> , 56, 131-136	3.3	77
679	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. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 064505	2.5	76
678	Influence on the gas sensor performances of the metal chemical states introduced by impregnation of calcinated SnO <sub>2</sub> sol-gel nanocrystals. <i>Sensors and Actuators B: Chemical</i> , <b>2000</b> , 68, 94-99	8.5	76
677	The aging effect on SnO <sub>2</sub> /Au thin film sensors: electrical and structural characterization. <i>Thin Solid Films</i> , <b>2000</b> , 371, 249-253	2.2	75
676	Strategies to enhance the carbon monoxide sensitivity of tin oxide thin films. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 95, 90-96	8.5	74
675	Vibrational and crystalline properties of polymorphic CuInC <sub>2</sub> (C=Se,S) chalcogenides. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	74
674	Analysis of the catalytic activity and electrical characteristics of different modified SnO <sub>2</sub> layers for gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2002</b> , 84, 12-20	8.5	73
673	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> , <b>2003</b> , 94, 324-329	8.5	72
672	Engineering grain boundaries at the 2D limit for the hydrogen evolution reaction. <i>Nature Communications</i> , <b>2020</b> , 11, 57	17.4	72
671	Surface activation by Pt-nanoclusters on titania for gas sensing applications. <i>Materials Science and Engineering C</i> , <b>2002</b> , 19, 105-109	8.3	71
670	Crystallographic Control at the Nanoscale To Enhance Functionality: Polytypic Cu <sub>2</sub> GeSe <sub>3</sub> Nanoparticles as Thermoelectric Materials. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 4615-4622	9.6	70
669	Ab initio calculations of NO <sub>2</sub> and SO <sub>2</sub> chemisorption onto non-polar ZnO surfaces. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 142, 179-184	8.5	70
668	On the role of individual metal oxide nanowires in the scaling down of chemical sensors. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 7105-10	3.6	70



667	Solvothermal, chloroalkoxide-based synthesis of monoclinic WO <sub>3</sub> quantum dots and gas-sensing enhancement by surface oxygen vacancies. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 16808-16	9.5	69
666	Suppression of three dimensional twinning for a 100% yield of vertical GaAs nanowires on silicon. <i>Nanoscale</i> , <b>2012</b> , 4, 1486-90	7.7	68
665	Synthesis of nanocrystalline materials for SOFC applications by acrylamide polymerisation. <i>Journal of Power Sources</i> , <b>2003</b> , 118, 256-264	8.9	68
664	High-temperature low-power performing micromachined suspended micro-hotplate for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 114, 826-835	8.5	67
663	Measurement of residual stress by slot milling with focused ion-beam equipment. <i>Journal of Micromechanics and Microengineering</i> , <b>2006</b> , 16, 254-259	2	67
662	MicroRaman scattering from polycrystalline CuInS <sub>2</sub> films: structural analysis. <i>Thin Solid Films</i> , <b>2000</b> , 361-362, 208-212	2.2	67
661	Extending the Nanocrystal Synthesis Control to Quaternary Compositions. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 1085-1090	3.5	65
660	Self-assembled GaN nanowires on diamond. <i>Nano Letters</i> , <b>2012</b> , 12, 2199-204	11.5	65
659	Influence of Cu-, Fe-, Co-, and Mn-oxide nanoclusters on sensing behavior of SnO <sub>2</sub> films. <i>Thin Solid Films</i> , <b>2004</b> , 467, 209-214	2.2	65
658	Optimization of tin dioxide nanosticks faceting for the improvement of palladium nanocluster epitaxy. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 329-331	3.4	65
657	Catalyst-free nanowires with axial In <sub>x</sub> Ga <sub>1-x</sub> As/GaAs heterostructures. <i>Nanotechnology</i> , <b>2009</b> , 20, 075603	3.4	64
656	Polymorphism in CuInS <sub>2</sub> epilayers: Origin of additional Raman modes. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 562-564	3.4	64
655	Efficient WO <sub>3</sub> photoanodes fabricated by pulsed laser deposition for photoelectrochemical water splitting with high faradaic efficiency. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 189, 133-140	21.8	62
654	Controlled Photocatalytic Oxidation of Methane to Methanol through Surface Modification of Beta Zeolites. <i>ACS Catalysis</i> , <b>2017</b> , 7, 2878-2885	13.1	61
653	Improvement of oxygen storage capacity using mesoporous ceria/zirconia solid solutions. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 108-109, 32-38	21.8	61
652	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. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 1774-1778	3.5	61
651	White luminescence from Si <sup>+</sup> and C <sup>+</sup> ion-implanted SiO <sub>2</sub> films. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 254-262	3.4	61
650	Cu deficiency in multi-stage co-evaporated Cu(In,Ga)Se <sub>2</sub> for solar cells applications: Microstructure and Ga in-depth alloying. <i>Acta Materialia</i> , <b>2010</b> , 58, 3468-3476	8.4	60



649	Raman microprobe characterization of electrodeposited S-rich CuIn(S,Se) <sub>2</sub> for photovoltaic applications: Microstructural analysis. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 103517	2.5	60
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