

Joan R Morante

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A High Conductivity One-Dimensional Ed Conjugated Metal-Organic Framework with Efficient Polysulfide Trapping-Diffusion-Catalysis in Lithium-Sulfur Batteries.. <i>Advanced Materials</i> , 2022 , e21088354	24	12
773	High performance silicon electrode enabled by titanicone coating.. <i>Scientific Reports</i> , 2022 , 12, 137	4.9	1
772	A novel Ed conjugated cobalt tetraaza[14]annulene based atomically dispersed electrocatalyst for efficient CO2 reduction. <i>Chemical Engineering Journal</i> , 2022 , 442, 136129	14.7	3
771	Structural Influence of the Anode Materials towards Efficient Zn Deposition/Dissolution in Aqueous Zn-Iodide Flow Batteries. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 040532	3.9	2
770	Tubular CoFeP@CN as a Mott-Schottky Catalyst with Multiple Adsorption Sites for Robust Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2100432	21.8	40
769	Facing Seawater Splitting Challenges by Regeneration with Ni-Mo-Fe Bifunctional Electrocatalyst for Hydrogen and Oxygen Evolution. <i>ChemSusChem</i> , 2021 , 14, 2872-2881	8.3	10
768	Selective anodes for seawater splitting via functionalization of manganese oxides by a plasma-assisted process. <i>Applied Catalysis B: Environmental</i> , 2021 , 284, 119684	21.8	25
767	Atomically dispersed Fe in a C2N Based Catalyst as a Sulfur Host for Efficient Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003507	21.8	36
766	Quasi-double-star nickel and iron active sites for high-efficiency carbon dioxide electroreduction. <i>Energy and Environmental Science</i> , 2021 , 14, 4847-4857	35.4	6
765	Light management in photoelectrochemical water splitting ¶from materials to device engineering. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3726-3748	7.1	10
764	Contact resistance stability and cation mixing in a Vulcan-based LiNiCoMnO slurry for semi-solid flow batteries. <i>Dalton Transactions</i> , 2021 , 50, 6710-6717	4.3	1
763	2D-Organic Layered Materials: Atomically dispersed Fe in a C2N Based Catalyst as a Sulfur Host for Efficient Lithium-Sulfur Batteries (Adv. Energy Mater. 5/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170022	21.8	0
762	Effects of solar irradiation on thermally driven CO2 methanation using Ni/CeO2Based catalyst. <i>Applied Catalysis B: Environmental</i> , 2021 , 291, 120038	21.8	4
761	NbSe2 Meets C2N: A 2D-2D Heterostructure Catalysts as Multifunctional Polysulfide Mediator in Ultra-Long-Life Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2101250	21.8	18
760	Photoelectrochemical water splitting: a road from stable metal oxides to protected thin film solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10625-10669	13	86
759	Engineering grain boundaries at the2D limit for thehydrogen evolution reaction. <i>Nature Communications</i> , 2020 , 11, 57	17.4	72
758	Adaptation of Cu(In, Ga)Se2 photovoltaics for full unbiased photocharge of integrated solar vanadium redox flow batteries. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1135-1142	5.8	6

757	Role of milling parameters on the mechano-chemically synthesized mesoporous nanosilicon properties for Li-ion batteries anode. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 139, 109318	3.9	0
756	Au/Manganese Oxide Nanostructures by a Plasma-Assisted Process as Electrocatalysts for Oxygen Evolution: A Chemico-Physical Investigation. <i>Advanced Sustainable Systems</i> , 2020 , 2000177	5.9	3
755	ZnSe/N-Doped Carbon Nanoreactor with Multiple Adsorption Sites for Stable Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2020 , 14, 15492-15504	16.7	43
754	Engineering Au/MnO ₂ hierarchical nanoarchitectures for ethanol electrochemical valorization. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16902-16907	13	9
753	Quasi-1D Mn ₂ O ₃ Nanostructures Functionalized with First-Row Transition-Metal Oxides as Oxygen Evolution Catalysts. <i>ACS Applied Nano Materials</i> , 2020 , 3, 9889-9898	5.6	5
752	Dual Improvement of MnO ₂ Oxygen Evolution Electrocatalysts via Combined Substrate Control and Surface Engineering. <i>ChemCatChem</i> , 2020 , 12, 5984-5992	5.2	3
751	Synthetic natural gas production from biogas in a waste water treatment plant. <i>Renewable Energy</i> , 2020 , 146, 1301-1308	8.1	23
750	Synthesis and electrochemical properties of 2D molybdenum vanadium carbides solid solution MXenes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8957-8968	13	38
749	Degradation and regeneration mechanisms of NiO protective layers deposited by ALD on photoanodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21892-21902	13	8
748	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	13	85
747	Analysis of the interfacial characteristics of BiVO ₄ /metal oxide heterostructures and its implication on their junction properties. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5086-5096	3.6	43
746	Combined High Catalytic Activity and Efficient Polar Tubular Nanostructure in Urchin-Like Metallic NiCo ₂ Se ₄ for High-Performance Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1903842	15.6	85
745	A practical non-enzymatic urea sensor based on NiCoO nanoneedles.. <i>RSC Advances</i> , 2019 , 9, 14443-14451	5.17	24
744	Modelling the rheology and electrochemical performance of Li ₄ Ti ₅ O ₁₂ and LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ based suspensions for semi-solid flow batteries. <i>Electrochimica Acta</i> , 2019 , 304, 146-157	6.7	10
743	High-power nitrided TiO ₂ carbon felt as the negative electrode for all-vanadium redox flow batteries. <i>Carbon</i> , 2019 , 148, 91-104	10.4	29
742	Photocatalytic Hydrogen Evolution Using Bi-Metallic (Ni/Pt) Na ₂ Ti ₃ O ₇ Whiskers: Effect of the Deposition Order. <i>Catalysts</i> , 2019 , 9, 285	4	14
741	Upscaling high activity oxygen evolution catalysts based on CoFe ₂ O ₄ nanoparticles supported on nickel foam for power-to-gas electrochemical conversion with energy efficiencies above 80%. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118055	21.8	23
740	Stable high-voltage aqueous pseudocapacitive energy storage device with slow self-discharge. <i>Nano Energy</i> , 2019 , 64, 103961	17.1	49

739	Insight into the Degradation Mechanisms of Atomic Layer Deposited TiO as Photoanode Protective Layer. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29725-29735	9.5	17
738	Gas sensing properties of individual SnO nanowires and SnO sol-gel nanocomposites. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 1380-1390	3	9
737	Boosting Photoelectrochemical Water Oxidation of Hematite in Acidic Electrolytes by Surface State Modification. <i>Advanced Energy Materials</i> , 2019 , 9, 1901836	21.8	32
736	A low temperature solid state reaction to produce hollow $Mn_xFe_{3-x}O_4$ nanoparticles as anode for lithium-ion batteries. <i>Nano Energy</i> , 2019 , 66, 104199	17.1	12
735	Photoelectrochemical Water Splitting: Boosting Photoelectrochemical Water Oxidation of Hematite in Acidic Electrolytes by Surface State Modification (Adv. Energy Mater. 34/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970131	21.8	
734	Multi-layered photocathodes based on $Cu_2ZnSnSe_4$ absorber and MoS_2 catalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24320-24327	13	7
733	$MoS_x@NiO$ Composite Nanostructures: An Advanced Nonprecious Catalyst for Hydrogen Evolution Reaction in Alkaline Media. <i>Advanced Functional Materials</i> , 2019 , 29, 1807562	15.6	59
732	Multilayered Hematite Nanowires with Thin-Film Silicon Photovoltaics in an All-Earth-Abundant Hybrid Tandem Device for Solar Water Splitting. <i>ChemSusChem</i> , 2019 , 12, 1428-1436	8.3	15
731	Solar vanadium redox-flow battery powered by thin-film silicon photovoltaics for efficient photoelectrochemical energy storage. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 044001	3	18
730	Tailor-made metal-nitrogen-carbon bifunctional electrocatalysts for rechargeable Zn-air batteries via controllable MOF units. <i>Energy Storage Materials</i> , 2019 , 17, 46-61	19.4	42
729	Role of Tungsten Doping on the Surface States in $BiVO_4$ Photoanodes for Water Oxidation: Tuning the Electron Trapping Process. <i>ACS Catalysis</i> , 2018 , 8, 3331-3342	13.1	91
728	High-power positive electrode based on synergistic effect of N- and WO_3 -decorated carbon felt for vanadium redox flow batteries. <i>Carbon</i> , 2018 , 136, 444-453	10.4	42
727	Economic viability of SNG production from power and CO_2 . <i>Energy Conversion and Management</i> , 2018 , 162, 218-224	10.6	53
726	Hydrogenation and Structuration of TiO_2 Nanorod Photoanodes: Doping Level and the Effect of Illumination in Trap-States Filling. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 3295-3304	3.8	14
725	Three-dimensional rice husk-originated mesoporous silicon and its electrical properties. <i>Materials Today Communications</i> , 2018 , 14, 141-150	2.5	14
724	Turning Earth Abundant Kesterite-Based Solar Cells Into Efficient Protected Water-Splitting Photocathodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13425-13433	9.5	24
723	Review of zinc-based hybrid flow batteries: From fundamentals to applications. <i>Materials Today Energy</i> , 2018 , 8, 80-108	7	137
722	On the role of Cu, Ag and Pt in active titania for gas-phase ethanol photo-reforming. <i>Materials Science in Semiconductor Processing</i> , 2018 , 73, 30-34	4.3	9

721	Ultrasensitive binder-free glucose sensors based on the pyrolysis of in situ grown Cu MOF. <i>Sensors and Actuators B: Chemical</i> , 2018 , 254, 272-281	8.5	59
720	Modelling and HRTEM computer simulation of facetting of SnO ₂ nanostructures deposited by spray pyrolysis on glass substrates 2018 , 79-82		
719	Effects of in-situ and ex-situ reduction of Pd/SnO ₂ studied by HRTEM 2018 , 73-76		
718	Rapid thermal sulphurisation of Cu-rich and Cu-poor Cu-In precursors for the production of CuInS ₂ layers for photovoltaic applications: a microstructural study 2018 , 507-510		
717	High resolution electron microscopy analysis of Pt-nanoparticles embedded on crystalline TiO ₂ 2018 , 69-72		
716	Noble metal distribution in mesoporous silica as a selective active filter for semiconductor gas sensors 2018 , 433-436		
715	Role of Bismuth in the Electrokinetics of Silicon Photocathodes for Solar Rechargeable Vanadium Redox Flow Batteries. <i>ChemSusChem</i> , 2018 , 11, 125-129	8.3	11
714	Tailoring Copper Foam with Silver Dendrite Catalysts for Highly Selective Carbon Dioxide Conversion into Carbon Monoxide. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43650-43660	9.5	24
713	Towards Production of a Highly Catalytic and Stable Graphene-Wrapped Graphite Felt Electrode for Vanadium Redox Flow Batteries. <i>Batteries</i> , 2018 , 4, 63	5.7	3
712	Implementation of Multijunction Solar Cells in Integrated Devices for the Generation of Solar Fuels 2018 , 349-384		1
711	Enhanced Hetero-Junction Quality and Performance of Kesterite Solar Cells by Aluminum Hydroxide Nanolayers and Efficiency Limitation Revealed by Atomic-resolution Scanning Transmission Electron Microscopy. <i>Solar Rrl</i> , 2018 , 3, 1800279	7.1	3
710	Hydrogen-Treated Rutile TiO Shell in Graphite-Core Structure as a Negative Electrode for High-Performance Vanadium Redox Flow Batteries. <i>ChemSusChem</i> , 2017 , 10, 2089-2098	8.3	40
709	Multilayer Ni/Fe thin films as oxygen evolution catalysts for solar fuel production. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 104003	3	10
708	A photoelectrochemical flow cell design for the efficient CO ₂ conversion to fuels. <i>Electrochimica Acta</i> , 2017 , 240, 225-230	6.7	25
707	Charge Transfer Characterization of ALD-Grown TiO Protective Layers in Silicon Photocathodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17932-17941	9.5	41
706	Recent developments in organic redox flow batteries: A critical review. <i>Journal of Power Sources</i> , 2017 , 360, 243-283	8.9	282
705	Controlled Photocatalytic Oxidation of Methane to Methanol through Surface Modification of Beta Zeolites. <i>ACS Catalysis</i> , 2017 , 7, 2878-2885	13.1	61
704	Insights into the Performance of CoNiTiO Solid Solutions as Photocatalysts for Sun-Driven Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40290-40297	9.5	18

703	Solvothermal Synthesis, Gas-Sensing Properties, and Solar Cell-Aided Investigation of TiO ₂ /MoO _x Nanocrystals. <i>ChemNanoMat</i> , 2017 , 3, 798-807	3.5	2
702	A prototype reactor for highly selective solar-driven CO ₂ reduction to synthesis gas using nanosized earth-abundant catalysts and silicon photovoltaics. <i>Energy and Environmental Science</i> , 2017 , 10, 2256-2266	35.4	87
701	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> , 2017 , 10, 2124-2136	35.4	136
700	Coexistence of the CuPt type ordering and the fine contrast modulation in InGaP/GaAs layers depending on the substrate misorientation 2017 , 381-384		
699	On the lateral decomposition, growth mode and defect nucleation in the In _x Ga _{1-x} As channel of HEMT devices depending on the growth temperature, well thickness and mismatch 2017 , 491-494		
698	Acetone sensors based on TiO ₂ nanocrystals modified with tungsten oxide species. <i>Journal of Alloys and Compounds</i> , 2016 , 665, 345-351	5.7	25
697	An insight on the role of La in mesoporous WO ₃ for the photocatalytic conversion of methane into methanol. <i>Applied Catalysis B: Environmental</i> , 2016 , 187, 30-36	21.8	81
696	Synergistic effects in 3D honeycomb-like hematite nanoflakes/branched polypyrrole nanoleaves heterostructures as high-performance negative electrodes for asymmetric supercapacitors. <i>Nano Energy</i> , 2016 , 22, 189-201	17.1	91
695	Conformal chalcopyrite based photocathode for solar refinery applications. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 158, 184-188	6.4	13
694	Efficient WO ₃ photoanodes fabricated by pulsed laser deposition for photoelectrochemical water splitting with high faradaic efficiency. <i>Applied Catalysis B: Environmental</i> , 2016 , 189, 133-140	21.8	62
693	NH ₃ sensing with self-assembled ZnO-nanowire BP sensors in isothermal and temperature-pulsed mode. <i>Sensors and Actuators B: Chemical</i> , 2016 , 226, 110-117	8.5	26
692	Static and Dynamic Studies on LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ -Based Suspensions for Semi-Solid Flow Batteries. <i>ChemSusChem</i> , 2016 , 9, 1938-44	8.3	24
691	A Perspective: Could Carbon Current Collectors Improve the Energy Density of Aqueous Alkaline Symmetric Supercapacitors?. <i>Energy Harvesting and Systems</i> , 2016 , 3, 287-296	4.4	
690	FeO@NiFeO Nanoparticles with Enhanced Electrocatalytic Properties for Oxygen Evolution in Carbonate Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29461-29469	9.5	30
689	Pd ₂ Sn [010] nanorods as a highly active and stable ethanol oxidation catalyst. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16706-16713	13	52
688	The Ethylhexanoate Route to Metal Oxide Nanocrystals: Synthesis of CoO Nanooctahedra from Coll 2-Ethylhexanoate. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 3963-3968	2.3	4
687	Non-aqueous semi-solid flow battery based on Na-ion chemistry. P2-type Na _x Ni _(0.22) Co _(0.11) Mn _(0.66) O ₍₂₎ -NaTi ₂ (PO ₄) ₃ . <i>Chemical Communications</i> , 2015 , 51, 7298-301	5.8	44
686	Electrospun Black Titania Nanofibers: Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 18835-18842	3.8	58

685	Facile integration of ordered nanowires in functional devices. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 104-112	8.5	22
684	Electron bottleneck in the charge/discharge mechanism of lithium titanates for batteries. <i>ChemSusChem</i> , 2015 , 8, 1737-44	8.3	14
683	Surface modification of TiO ₂ nanocrystals by WO _x coating or wrapping: solvothermal synthesis and enhanced surface chemistry. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6898-908	9.5	21
682	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	35.4	115
681	Solid electrolyte interphase in semi-solid flow batteries: a wolf in sheep's clothing. <i>Chemical Communications</i> , 2015 , 51, 14973-6	5.8	30
680	Evidence of catalytic activation of anatase nanocrystals by vanadium oxide surface layer: Acetone and ethanol sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2015 , 217, 193-197	8.5	18
679	Mesoporous WO ₃ photocatalyst for the partial oxidation of methane to methanol using electron scavengers. <i>Applied Catalysis B: Environmental</i> , 2015 , 163, 150-155	21.8	112
678	On the role of WO ₃ surface hydroxyl groups for the photocatalytic partial oxidation of methane to methanol. <i>Catalysis Communications</i> , 2015 , 58, 200-203	3.2	41
677	Improved selectivity for partial oxidation of methane to methanol in the presence of nitrite ions and BiVO ₄ photocatalyst. <i>Chemical Communications</i> , 2015 , 51, 7249-52	5.8	49
676	Thermally Stable Positive Electrolytes with a Superior Performance in All-Vanadium Redox Flow Batteries. <i>ChemPlusChem</i> , 2015 , 80, 354-358	2.8	16
675	Impact of the structure of Mo(S,Se) ₂ interfacial region in electrodeposited CuIn(S,Se) ₂ solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 61-66	1.6	6
674	Colloidal synthesis and functional properties of quaternary Cu-based semiconductors: Cu ₂ HgGeSe ₄ . <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	6
673	Polarity-driven polytypic branching in cu-based quaternary chalcogenide nanostructures. <i>ACS Nano</i> , 2014 , 8, 2290-301	16.7	41
672	Engineering the TiO ₂ outermost layers using magnesium for carbon dioxide photoreduction. <i>Applied Catalysis B: Environmental</i> , 2014 , 150-151, 57-62	21.8	51
671	Anisotropic magnetoresistance of individual CoFeB and Ni nanotubes with values of up to 1.4% at room temperature. <i>APL Materials</i> , 2014 , 2, 076112	5.7	22
670	Slightly hydrogenated TiO ₂ with enhanced photocatalytic performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12708-12716	13	164
669	Partial Oxidation of Methane to Methanol Using Bismuth-Based Photocatalysts. <i>ACS Catalysis</i> , 2014 , 4, 3013-3019	13.1	83
668	p-GaN/n-ZnO heterojunction nanowires: optoelectronic properties and the role of interface polarity. <i>ACS Nano</i> , 2014 , 8, 4376-84	16.7	92

667	Solvothermal, chloroalkoxide-based synthesis of monoclinic WO ₃ quantum dots and gas-sensing enhancement by surface oxygen vacancies. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16808-16	9.5	69
666	Soft chemistry routes to transparent metal oxide thin films. The case of sol-gel synthesis and structural characterization of Ta ₂ O ₅ thin films from tantalum chloromethoxide. <i>Thin Solid Films</i> , 2014 , 555, 39-41	2.2	9
665	SoH evaluation of LiFePO ₄ cells using impedance and thermal measurements 2014 ,		1
664	Influence of In and Ga additives onto SnO ₂ inkjet-printed semiconductor. <i>Thin Solid Films</i> , 2014 , 553, 118-122	2.2	12
663	Copper (II) oxide nanowires for p-type conductometric NH ₃ sensing. <i>Applied Surface Science</i> , 2014 , 311, 177-181	6.7	49
662	Operando studies of all-vanadium flow batteries: Easy-to-make reference electrode based on silver/silver sulfate. <i>Journal of Power Sources</i> , 2014 , 271, 556-560	8.9	21
661	Acetone Sensing with TiO ₂ -WO ₃ Nanocomposites: An Example of Response Enhancement by Inter-oxide Cooperative Effects. <i>Procedia Engineering</i> , 2014 , 87, 803-806		9
660	One-dimensional CuO/SnO ₂ p-n heterojunctions for enhanced detection of H ₂ S. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11261	13	52
659	Strategies for enhancing electrochemical activity of carbon-based electrodes for all-vanadium redox flow batteries. <i>Applied Energy</i> , 2013 , 109, 344-351	10.7	90
658	Oxide/oxide nanojunctions in coaxial SnO ₂ /TiO ₂ , SnO ₂ /V ₂ O ₃ and SnO ₂ /(Ti _{0.5} V _{0.5}) ₂ O ₃ nanowire heterostructures. <i>CrystEngComm</i> , 2013 , 15, 4532	3.3	7
657	Interaction Mechanisms of Ammonia and Tin Oxide: A Combined Analysis Using Single Nanowire Devices and DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 3520-3526	3.8	47
656	Heterostructured p-CuO (nanoparticle)/n-SnO ₂ (nanowire) devices for selective H ₂ S detection. <i>Sensors and Actuators B: Chemical</i> , 2013 , 181, 130-135	8.5	124
655	Enhanced photovoltaic performance of nanowire dye-sensitized solar cells based on coaxial TiO ₂ @TiO heterostructures with a cobalt(II/III) redox electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9872-7	9.5	18
654	Embedding catalytic nanoparticles inside mesoporous structures with controlled porosity: Au@TiO ₂ . <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14170	13	20
653	Tuning the Fermi Level and the Kinetics of Surface States of TiO ₂ Nanorods by Means of Ammonia Treatments. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20517-20524	3.8	53
652	Highly electrocatalytic flexible nanofiber for improved vanadium-based redox flow battery cathode electrodes. <i>RSC Advances</i> , 2013 , 3, 12056	3.7	41
651	Self-assembled quantum dots in a nanowire system for quantum photonics. <i>Nature Materials</i> , 2013 , 12, 439-44	27	278
650	Suppression of the NO ₂ interference by chromium addition in WO ₃ -based ammonia sensors. Investigation of the structural properties and of the related sensing pathways. <i>Sensors and Actuators B: Chemical</i> , 2013 , 187, 308-312	8.5	7

649	Thermochemical treatments based on NH ₃ /O ₂ for improved graphite-based fiber electrodes in vanadium redox flow batteries. <i>Carbon</i> , 2013 , 60, 280-288	10.4	90
648	Insight into the structural, electrical and photoresponse properties of individual Fe:SrTiO ₃ nanotubes. <i>Materials Chemistry and Physics</i> , 2013 , 141, 9-13	4.4	5
647	On-chip fabrication of surface ionisation gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2013 , 182, 25-308.5		13
646	Metal ions to control the morphology of semiconductor nanoparticles: copper selenide nanocubes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4664-7	16.4	97
645	Photochemical activity of TiO ₂ nanotubes 2013 ,		1
644	Colloidal synthesis and thermoelectric properties of Cu ₂ SnSe ₃ nanocrystals. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1421-1426	13	84
643	Solution-growth and optoelectronic properties of ZnO:Cl@ZnS core-shell nanowires with tunable shell thickness. <i>Journal of Alloys and Compounds</i> , 2013 , 555, 213-218	5.7	24
642	Raman scattering and disorder effect in Cu ₂ ZnSnS ₄ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 258-261	2.5	119
641	Preparation of copper oxide nanowire-based conductometric chemical sensors. <i>Sensors and Actuators B: Chemical</i> , 2013 , 182, 7-15	8.5	51
640	Core-shell nanoparticles as building blocks for the bottom-up production of functional nanocomposites: PbTe-PbS thermoelectric properties. <i>ACS Nano</i> , 2013 , 7, 2573-86	16.7	121
639	Optimization of surface charge transfer processes on rutile TiO ₂ nanorods photoanodes for water splitting. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 2979-2985	6.7	42
638	Colloidal Counterpart of the TiO ₂ -Supported V ₂ O ₅ System: A Case Study of Oxide-on-Oxide Deposition by Wet Chemical Techniques. Synthesis, Vanadium Speciation, and Gas-Sensing Enhancement. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20697-20705	3.8	30
637	Chemical to electrical transduction mechanisms from single metal oxide nanowire measurements: response time constant analysis. <i>Nanotechnology</i> , 2013 , 24, 444004	3.4	8
636	Metal oxides as functional semiconductors. An inkjet approach. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1552, 45-50		
635	Spatial mapping of exciton lifetimes in single ZnO nanowires. <i>APL Materials</i> , 2013 , 1, 012103	5.7	7
634	Catalyst size limitation in vapor-liquid-solid ZnO nanowire growth using pulsed laser deposition. <i>Thin Solid Films</i> , 2012 , 520, 4626-4631	2.2	21
633	Extending the Nanocrystal Synthesis Control to Quaternary Compositions. <i>Crystal Growth and Design</i> , 2012 , 12, 1085-1090	3.5	65
632	Polarity assignment in ZnTe, GaAs, ZnO, and GaN-AlN nanowires from direct dumbbell analysis. <i>Nano Letters</i> , 2012 , 12, 2579-86	11.5	146

631	Suppression of three dimensional twinning for a 100% yield of vertical GaAs nanowires on silicon. <i>Nanoscale</i> , 2012 , 4, 1486-90	7.7	68
630	Cu ₂ ZnGeSe ₄ nanocrystals: synthesis and thermoelectric properties. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4060-3	16.4	182
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