

Jordi Llorca

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.

435
papers

14,756
citations

59
h-index

99
g-index

454
ext. papers

16,872
ext. citations

7.4
avg, IF

6.85
L-index

#	Paper	IF	Citations
435	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 , e2108835 ²⁴		12
434	Photocatalytic hydrogen production from alcohol aqueous solutions over TiO ₂ -activated carbon composites decorated with Au and Pt. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022 , 425, 113726	4.7	1
433	Modelling and simulation of catalytic ammonia decomposition over Ni-Ru deposited on 3D-printed CeO ₂ . <i>Chemical Engineering Journal</i> , 2022 , 427, 131756	14.7	3
432	Enhanced photoproduction of hydrogen on Pd/TiO ₂ prepared by mechanochemistry. <i>Applied Catalysis B: Environmental</i> , 2022 , 309, 121275	21.8	1
431	Au/TiO ₂ 2D-Photonic Crystals as UV-Visible Photocatalysts for H ₂ Production. <i>Advanced Energy Materials</i> , 2022 , 12, 2103733	21.8	2
430	The Importance of Surface Adsorbates in Solution-Processed Thermoelectric Materials: The Case of SnSe. <i>Advanced Materials</i> , 2021 , e2106858	24	4
429	Ligand Conversion in Nanocrystal Synthesis: The Oxidation of Alkylamines to Fatty Acids by Nitrate.. <i>Jacs Au</i> , 2021 , 1, 1898-1903		2
428	PbS-Pb-CuS Composites for Thermoelectric Application. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 51373-51382	9.5	2
427	Pd/CeO ₂ Catalysts Prepared by Solvent-free Mechanochemical Route for Methane Abatement in Natural Gas Fueled Vehicles. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 6435-6445	3.9	4
426	Effect of the Annealing Atmosphere on Crystal Phase and Thermoelectric Properties of Copper Sulfide. <i>ACS Nano</i> , 2021 , 15, 4967-4978	16.7	15
425	Increasing reaction time in Hummers' method towards well exfoliated graphene oxide of low oxidation degree. <i>Ceramics International</i> , 2021 ,	5.1	6
424	Catalytic Transformation of Biomass-Derived 5-Hydroxymethylfurfural over Supported Bimetallic Iridium-Based Catalysts. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9657-9678	3.8	2
423	Photodehydrogenation of Ethanol over CuO/TiO Heterostructures. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
422	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
421	X-ray photoelectron and Raman spectroscopy of nanostructured ceria in soot oxidation under operando conditions. <i>Carbon</i> , 2021 , 178, 164-180	10.4	4
420	Structural Evolution of Bimetallic PtPd/CeO Methane Oxidation Catalysts Prepared by Dry Milling. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 31614-31623	9.5	3
419	Catalytic ammonia decomposition over Ni-Ru supported on CeO ₂ for hydrogen production: Effect of metal loading and kinetic analysis. <i>Applied Catalysis B: Environmental</i> , 2021 , 286, 119896	21.8	16

418	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
417	Chelating agent effects in the synthesis of supported Ni nanoparticles as catalysts for hydrogen production. <i>Applied Catalysis A: General</i> , 2021 , 622, 118219	5.1	0
416	Enhanced Thermoelectric Performance of n-Type BiSe Nanosheets through Sn Doping. <i>Nanomaterials</i> , 2021 , 11,	5.4	5
415	A million-microchannel multifuel steam reformer for hydrogen production. <i>Catalysis Today</i> , 2021 , 362, 55-61	5.3	3
414	Monoliths washcoated with AuCu catalysts for CO removal in an ethanol fuel processor: Effect of CeO ₂ /BiO ₂ dual support on the catalytic performance and reactor cost. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 2166-2181	6.7	3
413	Atomically dispersed Fe in a C ₂ N Based Catalyst as a Sulfur Host for Efficient Lithium/Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003507	21.8	36
412	Methane oxidation activity and nanoscale characterization of Pd/CeO ₂ catalysts prepared by dry milling Pd acetate and ceria. <i>Applied Catalysis B: Environmental</i> , 2021 , 282, 119567	21.8	22
411	A Direct Z-Scheme for the Photocatalytic Hydrogen Production from a Water Ethanol Mixture on CoTiO/TiO Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 449-457	9.5	10
410	Ultradispersed Mo/TiO ₂ catalysts for CO ₂ hydrogenation to methanol. <i>Green Chemistry</i> , 2021 , 23, 7259-7268	7.2	4
409	Low-Temperature Methane Partial Oxidation over Pd Supported on CeO ₂ : Effect of the Preparation Method and Precursors. <i>Reactions</i> , 2021 , 2, 30-42	1.5	1
408	Doping-mediated stabilization of copper vacancies to promote thermoelectric properties of Cu ₂ S. <i>Nano Energy</i> , 2021 , 85, 105991	17.1	6
407	The reflectance spectra of CVUK carbonaceous chondrites from the near-infrared to the visible. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 507, 651-662	4.3	
406	Immobilization of glucose oxidase on plasma-treated polyethylene for non-invasive glucose detection. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 895, 115509	4.1	3
405	NbSe ₂ Meets C ₂ 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	21.8	18
404	Hydrogen photoproduction on TiO ₂ -reduced graphene oxide hybrid materials from water-ethanol mixture. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021 , 418, 113406	4.7	2
403	Standalone micro-reformer for on-demand hydrogen production from dimethyl ether. <i>Journal of Power Sources</i> , 2021 , 506, 230241	8.9	0
402	Photocatalytic hydrogen production from water-methanol and -glycerol mixtures using Pd/TiO ₂ (-WO ₃) catalysts and validation in a solar pilot plant. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 36152-36152	6.7	1
401	Effect of Ni particle size on the production of renewable methane from CO ₂ over Ni/CeO ₂ catalyst. <i>Journal of Energy Chemistry</i> , 2021 , 61, 602-611	12	17

400	Nickel Iron Diselenide for Highly Efficient and Selective Electrocatalytic Conversion of Methanol to Formate. <i>Small</i> , 2021 , 17, e2006623	11	4
399	CO Total and Preferential Oxidation over Stable Au/TiO ₂ Catalysts Derived from Preformed Au Nanoparticles. <i>Catalysts</i> , 2020 , 10, 1028	4	1
398	SnS ₂ /g-C ₃ N ₄ /graphite nanocomposites as durable lithium-ion battery anode with high pseudocapacitance contribution. <i>Electrochimica Acta</i> , 2020 , 349, 136369	6.7	11
397	Effect of the formation of NiCu alloy and use of biomass-derived furfural on the catalytic hydrogenation of furfural to THFA. <i>Molecular Catalysis</i> , 2020 , 490, 110956	3.3	12
396	The Dynamic Structure of Au(SR) Nanoclusters Supported on CeO upon Pretreatment and CO Oxidation. <i>ACS Catalysis</i> , 2020 , 10, 6144-6148	13.1	20
395	The meteorite of Barcelona (1704): History, discovery, and classification. <i>Meteoritics and Planetary Science</i> , 2020 , 55, 705-725	2.8	2
394	Macroporous silicon coated with M/TiO ₂ (M=Au,Pt) as a highly efficient photoreactor for hydrogen production. <i>Chemical Engineering Journal</i> , 2020 , 393, 124701	14.7	7
393	Catalytic Performance of Bulk and Al ₂ O ₃ -Supported Molybdenum Oxide for the Production of Biodiesel from Oil with High Free Fatty Acids Content. <i>Catalysts</i> , 2020 , 10, 158	4	13
392	Ceria-Based Catalysts Studied by Near Ambient Pressure X-ray Photoelectron Spectroscopy: A Review. <i>Catalysts</i> , 2020 , 10, 286	4	22
391	Facile morphology control of gold(0) structures from aurophilic assemblies. <i>Dalton Transactions</i> , 2020 , 49, 4200-4205	4.3	
390	Stability of Pd ₃ Pb Nanocubes during Electrocatalytic Ethanol Oxidation. <i>Chemistry of Materials</i> , 2020 , 32, 2044-2052	9.6	33
389	A SnS ₂ Molecular Precursor for Conformal Nanostructured Coatings. <i>Chemistry of Materials</i> , 2020 , 32, 2097-2106	9.6	6
388	Assessment of integration of methane-reduced ceria chemical looping CO ₂ /H ₂ O splitting cycle to an oxy-fired power plant. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 6184-6206	6.7	6
387	Furfural production from xylose and birch hydrolysate liquor in a biphasic system and techno-economic analysis. <i>Biomass Conversion and Biorefinery</i> , 2020 , 11, 2095	2.3	5
386	Investigation of physicochemical and electrical properties of (hbox {TiO}_{2}) nanotubes/graphene oxide nanocomposite. <i>Bulletin of Materials Science</i> , 2020 , 43, 1	1.7	1
385	Photoproduction of hydrogen in microreactors: Catalytic coating or slurry configuration?. <i>Catalysis Today</i> , 2020 , 383, 156-156	5.3	3
384	Tin Selenide Molecular Precursor for the Solution Processing of Thermoelectric Materials and Devices. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27104-27111	9.5	9
383	Comparing the reflectivity of ungrouped carbonaceous chondrites with those of short-period comets like 2P/Encke. <i>Astronomy and Astrophysics</i> , 2020 , 641, A58	5.1	5

382	Absorption mechanisms in macroporous silicon photonic crystals. <i>Sensors and Actuators A: Physical</i> , 2020 , 303, 111698	3.9	
381	Ammonia decomposition over 3D-printed CeO ₂ structures loaded with Ni. <i>Applied Catalysis A: General</i> , 2020 , 591, 117382	5.1	20
380	Monodisperse CoSn and NiSn Nanoparticles Supported on Commercial Carbon as Anode for Lithium- and Potassium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4414-4422	9.5	24
379	Hydrogen photogeneration using ternary CuGaS ₂ -TiO ₂ -Pt nanocomposites. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 1510-1520	6.7	14
378	CO and CO ₂ methanation over Ni catalysts supported on CeO ₂ , Al ₂ O ₃ and Y ₂ O ₃ oxides. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118494	21.8	98
377	Modelling of the ethanol steam reforming over Rh-Pd/CeO ₂ catalytic wall reactors. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 26265-26273	6.7	8
376	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
375	Operando X-ray Absorption Spectroscopy Investigation of Photocatalytic Hydrogen Evolution over Ultradispersed Pt/TiO ₂ Catalysts. <i>ACS Catalysis</i> , 2020 , 10, 12696-12705	13.1	16
374	Phosphorous incorporation in Pd ₂ Sn alloys for electrocatalytic ethanol oxidation. <i>Nano Energy</i> , 2020 , 77, 105116	17.1	23
373	A straightforward method to prepare supported Au clusters by mechanochemistry and its application in photocatalysis. <i>Applied Materials Today</i> , 2020 , 21, 100873	6.6	5
372	Selective Methanol-to-Formate Electrocatalytic Conversion on Branched Nickel Carbide. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 20826-20830	16.4	29
371	Recycled Low-Density Polyethylene for Noninvasive Glucose Monitoring: A Proposal for Plastic Recycling that Adds Technological Value. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12554-12560	8.3	2
370	Monitoring the insertion of Pt into CuSe nanocrystals: a combined structural and chemical approach for the analysis of new ternary phases. <i>Nanoscale</i> , 2020 , 12, 16627-16638	7.7	1
369	Selective Methanol-to-Formate Electrocatalytic Conversion on Branched Nickel Carbide. <i>Angewandte Chemie</i> , 2020 , 132, 21012-21016	3.6	4
368	High temperature mechanical properties and microstructure of hard TaSiN coatings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 797, 139976	5.3	2
367	Hydrogen production in microreactors 2020 , 141-182		1
366	Outstanding dispersion of CeO ₂ on reduced graphene oxide. Implications for highly dispersed Pd catalysts. <i>Diamond and Related Materials</i> , 2020 , 109, 108061	3.5	2
365	CO Oxidation on Ceria Studied by Electrochemical Impedance Spectroscopy. <i>ChemCatChem</i> , 2020 , 12, 5926-5931	5.2	0

364	Simulation of two-step redox recycling of non-stoichiometric ceria with thermochemical dissociation of CO ₂ /H ₂ O in moving bed reactors [Part I: Model development with redox kinetics and sensitivity analysis. <i>Chemical Engineering Science</i> , 2020 , 226, 114873	4.4	1
363	Catalytic performance of zinc-supported copper and nickel catalysts in the glycerol hydrogenolysis. <i>Journal of Energy Chemistry</i> , 2020 , 42, 185-194	12	16
362	Carbonaceous catalysts from orange pulp for limonene oxidation. <i>Carbon Letters</i> , 2020 , 30, 189-198	2.3	4
361	Superior methanol electrooxidation performance of (110)-faceted nickel polyhedral nanocrystals. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22036-22043	13	22
360	Solution-Processed Ultrathin SnS-Pt Nanoplates for Photoelectrochemical Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6918-6926	9.5	36
359	Co-Sn Nanocrystalline Solid Solutions as Anode Materials in Lithium-Ion Batteries with High Pseudocapacitive Contribution. <i>ChemSusChem</i> , 2019 , 12, 1451-1458	8.3	25
358	The dynamics of PdO-Pd phase transformation in the presence of water over Si-doped Pd/CeO ₂ methane oxidation catalysts. <i>Applied Catalysis A: General</i> , 2019 , 574, 79-86	5.1	15
357	Chromium phosphide CrP as highly active and stable electrocatalysts for oxygen electroreduction in alkaline media. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117846	21.8	13
356	Influence of Pt particle size and reaction phase on the photocatalytic performances of ultradispersed Pt/TiO ₂ catalysts for hydrogen evolution. <i>Journal of Catalysis</i> , 2019 , 375, 155-163	7.3	36
355	Simulation of two-step redox recycling of non-stoichiometric ceria with thermochemical dissociation of CO ₂ /H ₂ O in moving bed reactors [Part II: Techno-economic analysis and integration with 100 MW oxyfuel power plant with carbon capture. <i>Chemical Engineering Science</i> , 2019 , 205, 358-373	4.4	8
354	Al ₂ O ₃ -supported Pt/Rh catalysts for NO _x removal under lean conditions. <i>Applied Catalysis A: General</i> , 2019 , 581, 43-57	5.1	3
353	Compositionally tuned Ni _x Sn alloys as anode materials for lithium-ion and sodium-ion batteries with a high pseudocapacitive contribution. <i>Electrochimica Acta</i> , 2019 , 304, 246-254	6.7	35
352	Dynamic Reorganization of Bimetallic Nanoparticles under Reaction Depending on the Support Nanoshape: The Case of RhPd over Ceria Nanocubes and Nanorods under Ethanol Steam Reforming. <i>ACS Catalysis</i> , 2019 , 9, 3641-3647	13.1	18
351	Heterogeneous Fenton-like oxidation of p-hydroxybenzoic acid using Fe/CeO-TiO catalyst. <i>Water Science and Technology</i> , 2019 , 79, 1276-1286	2.2	3
350	Catalytic ammonia decomposition for hydrogen production on Ni, Ru and Ni Ru supported on CeO ₂ . <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 12693-12707	6.7	57
349	In situ environmental HRTEM discloses low temperature carbon soot oxidation by ceria-zirconia at the nanoscale. <i>Chemical Communications</i> , 2019 , 55, 3876-3878	5.8	11
348	A Nafion Film Cover to Enhance the Analytical Performance of the CuO/Cu Electrochemical Sensor for Determination of Chemical Oxygen Demand. <i>Sensors</i> , 2019 , 19,	3.8	11
347	Ligand and support effects on the reactivity and stability of Au ₃₈ (SR) ₂₄ catalysts in oxidation reactions. <i>Catalysis Communications</i> , 2019 , 130, 105768	3.2	8

346	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
345	In Situ Electrochemical Oxidation of Cu ₂ S into CuO Nanowires as a Durable and Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Chemistry of Materials</i> , 2019 , 31, 7732-7743	9.6	69
344	Low Temperature Infrared Study of Carbon Monoxide Adsorption on Rh/CeO ₂ . <i>Catalysts</i> , 2019 , 9, 598	4	3
343	The effect of milling parameters on the mechanochemical synthesis of Pd/CeO ₂ methane oxidation catalysts. <i>Catalysis Science and Technology</i> , 2019 , 9, 4232-4238	5.5	20
342	Macroporous Silicon Filters, a Versatile Platform for NDIR Spectroscopic Gas Sensing in the MIR. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B1010-B1015	3.9	7
341	Furfural production in a biphasic system using a carbonaceous solid acid catalyst. <i>Applied Catalysis A: General</i> , 2019 , 585, 117180	5.1	17
340	Porous NiTiO ₃ /TiO ₂ nanostructures for photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17053-17059	13	21
339	3D printed microstructured Au/TiO ₂ catalyst for hydrogen photoproduction. <i>Applied Materials Today</i> , 2019 , 16, 265-272	6.6	27
338	Electrically Polarized Hydroxyapatite: Influence of the Polarization Process on the Microstructure and Properties. <i>Langmuir</i> , 2019 , 35, 14782-14790	4	10
337	Microwave-Assisted Furfural Production Using Hectorites and Fluorohectorites as Catalysts. <i>Catalysts</i> , 2019 , 9, 706	4	0
336	A low temperature solid state reaction to produce hollow Mn _x Fe _{3-x} O ₄ nanoparticles as anode for lithium-ion batteries. <i>Nano Energy</i> , 2019 , 66, 104199	17.1	12
335	New observations on high-pressure phases in a shock melt vein in the Villalbeto de la Peña meteorite: Insights into the shock behavior of diopside. <i>Meteoritics and Planetary Science</i> , 2019 , 54, 2845-2863	2.8	4
334	Water-mediated photo-induced reduction of platinum films. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 1288-1293	2.4	3
333	Empirical demonstration of CO detection using macroporous silicon photonic crystals as selective thermal emitters. <i>Optics Letters</i> , 2019 , 44, 4535-4538	3	4
332	Techno-economic and exergy analysis of polygeneration plant for power and DME production with the integration of chemical looping CO ₂ /H ₂ O splitting. <i>Energy Conversion and Management</i> , 2019 , 186, 200-219	10.6	29
331	Effect of TiO ₂ nanoshape on the photoproduction of hydrogen from water-ethanol mixtures over Au ₃ Cu/TiO ₂ prepared with preformed Au-Cu alloy nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2019 , 248, 504-514	21.8	20
330	Recent Advances in the Catalytic Production of Platform Chemicals from Holocellulosic Biomass. <i>ChemCatChem</i> , 2019 , 11, 2022-2042	5.2	44
329	Thermodynamic assessment of non-catalytic Ceria for syngas production by methane reduction and CO ₂ + H ₂ O oxidation. <i>Materials for Renewable and Sustainable Energy</i> , 2019 , 8, 1	4.7	1

328	A Pd/Al ₂ O ₃ -based micro-reformer unit fully integrated in silicon technology for H-rich gas production. <i>Journal of Physics: Conference Series</i> , 2019 , 1407, 012048	0.3	
327	Hollow PdAg-CeO heterodimer nanocrystals as highly structured heterogeneous catalysts. <i>Scientific Reports</i> , 2019 , 9, 18776	4.9	9
326	Selective hydrodeoxygenation of biomass derived 5-hydroxymethylfurfural over silica supported iridium catalysts. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 270-283	21.8	34
325	Methanol steam reforming behavior of sol-gel synthesized nanodimensional Cu _x Fe _{1-x} Al ₂ O ₄ hercynites. <i>Applied Catalysis A: General</i> , 2019 , 570, 73-83	5.1	10
324	Silver and manganese co-doped titanium oxide aerogel for effective diclofenac degradation under UV-A light irradiation. <i>Journal of Alloys and Compounds</i> , 2019 , 779, 314-325	5.7	14
323	A comparative study of water-immiscible organic solvents in the production of furfural from xylose and birch hydrolysate. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 72, 354-363	6.3	19
322	Graphene-supported palladium phosphide PdP ₂ nanocrystals for ethanol electrooxidation. <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 258-266	21.8	48
321	Catalytic reforming of dimethyl ether in microchannels. <i>Catalysis Today</i> , 2019 , 323, 209-215	5.3	12
320	Partial oxidation of methane to syngas using Co/Mg and Co/Mg-Al oxide supported catalysts. <i>Catalysis Today</i> , 2019 , 333, 259-267	5.3	12
319	NiSn bimetallic nanoparticles as stable electrocatalysts for methanol oxidation reaction. <i>Applied Catalysis B: Environmental</i> , 2018 , 234, 10-18	21.8	82
318	In Situ Characterization of Mesoporous Co/CeO ₂ Catalysts for the High-Temperature Water-Gas Shift. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8998-9008	3.8	21
317	Assessment of kinetic model for ceria oxidation for chemical-looping CO ₂ dissociation. <i>Chemical Engineering Journal</i> , 2018 , 346, 171-181	14.7	11
316	Remarkable Carbon Dioxide Hydrogenation to Ethanol on a Palladium/Iron Oxide Single-Atom Catalyst. <i>ChemCatChem</i> , 2018 , 10, 2365-2369	5.2	43
315	Treatment of saline produced water through photocatalysis using rGO-TiO ₂ nanocomposites. <i>Catalysis Today</i> , 2018 , 315, 194-204	5.3	27
314	In Situ Elucidation of the Active State of Co/CeO _x Catalysts in the Dry Reforming of Methane: The Important Role of the Reducible Oxide Support and Interactions with Cobalt. <i>ACS Catalysis</i> , 2018 , 8, 3550-3560	13.1	56
313	Plasma-treated polyethylene as electrochemical mediator for enzymatic glucose sensors: Toward bifunctional glucose and dopamine sensors. <i>Plasma Processes and Polymers</i> , 2018 , 15, 1700133	3.4	10
312	Outstanding Methane Oxidation Performance of Palladium-Embedded Ceria Catalysts Prepared by a One-Step Dry Ball-Milling Method. <i>Angewandte Chemie</i> , 2018 , 130, 10369-10373	3.6	21
311	CuGaS ₂ and CuGaS ₂ /ZnS Porous Layers from Solution-Processed Nanocrystals. <i>Nanomaterials</i> , 2018 , 8,	5.4	7

310	Fast and Simple Microwave Synthesis of TiO ₂ /Au Nanoparticles for Gas-Phase Photocatalytic Hydrogen Generation. <i>Frontiers in Chemistry</i> , 2018 , 6, 110	5	22
309	Colloidal Ni ₂ -Co ₃ P nanocrystals for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11453-11462	13	43
308	Preparation and photocatalytic activity of Au/TiO ₂ lyogels for hydrogen production. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2284-2295	5.8	22
307	Growth of Au-PdSn Nanorods via Galvanic Replacement and Their Catalytic Performance on Hydrogenation and Sonogashira Coupling Reactions. <i>Langmuir</i> , 2018 , 34, 10634-10643	4	8
306	Outstanding Methane Oxidation Performance of Palladium-Embedded Ceria Catalysts Prepared by a One-Step Dry Ball-Milling Method. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10212-10216	16.4	69
305	Colloidal Ni ₂ O ₃ nanoparticles as efficient electrocatalysts for the methanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22915-22924	13	49
304	Tin Diselenide Molecular Precursor for Solution-Processable Thermoelectric Materials. <i>Angewandte Chemie</i> , 2018 , 130, 17309-17314	3.6	7
303	Tin Diselenide Molecular Precursor for Solution-Processable Thermoelectric Materials. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 17063-17068	16.4	12
302	Oxidation by H ₂ O(g) in the presence of H ₂ (g) of UO ₂ doped with Pd nanoparticles. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018 , 318, 1201-1207	1.5	0
301	Fast furfural formation from xylose using solid acid catalysts assisted by a microwave reactor. <i>Fuel Processing Technology</i> , 2018 , 182, 56-67	7.2	17
300	Ligand Migration from Cluster to Support: A Crucial Factor for Catalysis by Thiolate-protected Gold Clusters. <i>ChemCatChem</i> , 2018 , 10, 5372-5376	5.2	25
299	Performance comparison of Ni/TiO ₂ and Au/TiO ₂ photocatalysts for H ₂ production in different alcohol-water mixtures. <i>Journal of Catalysis</i> , 2018 , 367, 27-42	7.3	71
298	Unraveling the Chemical State of Cobalt in Co-Based Catalysts during Ethanol Steam Reforming: an in Situ Study by Near Ambient Pressure XPS and XANES. <i>ACS Catalysis</i> , 2018 , 8, 9625-9636	13.1	31
297	Plasma surface modification of polymers for sensor applications. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 6515-6533	7.3	19
296	Techno-economic and exergetic assessment of an oxy-fuel power plant fueled by syngas produced by chemical looping CO ₂ and H ₂ O dissociation. <i>Journal of CO₂ Utilization</i> , 2018 , 27, 500-517	7.6	24
295	Structural and chemical state of doped and impregnated mesoporous Ni/CeO ₂ catalysts for the water-gas shift. <i>Applied Catalysis A: General</i> , 2018 , 567, 1-11	5.1	8
294	Effect of temperature on the gas-phase photocatalytic H ₂ generation using microreactors under UVA and sunlight irradiation. <i>Fuel</i> , 2018 , 222, 327-333	7.1	20
293	Pd/TiO ₂ -WO ₃ photocatalysts for hydrogen generation from water-methanol mixtures. <i>Applied Surface Science</i> , 2018 , 455, 570-580	6.7	24

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