Tiziano Montini

List of Publications by Year
in descending order

131 papers	12,115 citations	31976 53 h-index	25787 108 g-index
134 all docs	134 docs citations	134 times ranked	14855 citing authors

#	Article	IF	Citations
1	Fundamentals and Catalytic Applications of CeO₂-Based Materials. Chemical Reviews, 2016, 116, 5987-6041.	47.7	1,883
2	Electron Localization Determines Defect Formation on Ceria Substrates. Science, 2005, 309, 752-755.	12.6	1,211
3	Exceptional Activity for Methane Combustion over Modular Pd@CeO ₂ Subunits on Functionalized Al ₂ O ₃. Science, 2012, 337, 713-717.	12.6	842
4	Surface Phases and Photocatalytic Activity Correlation of Bi₂O₃/Bi₂O_{4-x} Nanocomposite. Journal of the American Chemical Society, 2008, 130, 9658-9659.	13.7	327
5	Visible-light-driven coproduction of diesel precursors and hydrogen from lignocellulose-derived methylfurans. Nature Energy, 2019, 4, 575-584.	39.5	268
6	Embedded Phases: A Way to Active and Stable Catalysts. ChemSusChem, 2010, 3, 24-42.	6.8	240
7	CuO_xâˆ’TiO₂ Photocatalysts for H₂ Production from Ethanol and Glycerol Solutions. Journal of Physical Chemistry A, 2010, 114, 3916-3925.	2.5	239
8	The Potential of Supported Cu₂O and CuO Nanosystems in Photocatalytic H₂ Production. ChemSusChem, 2009, 2, 230-233.	6.8	225
9	Synthesis of Dispersible Pd@CeO₂Coreâˆ’Shell Nanostructures by Self-Assembly. Journal of the American Chemical Society, 2010, 132, 1402-1409.	13.7	214
10	TiO2 nanopowders doped with boron and nitrogen for photocatalytic applications. Chemical Physics, 2007, 339, 111-123.	1.9	194
11	Synthesis and photocatalytic application of visible-light active Î² -Fe 2 O 3 /g-C 3 N 4 hybrid nanocomposites. Applied Catalysis B: Environmental, 2016, 187, 171-180.	20.2	194
12	Synthesis, characterization and photocatalytic performance of transition metal tungstates. Chemical Physics Letters, 2010, 498, 113-119.	2.6	173
13	F-Doped Co₃O₄ Photocatalysts for Sustainable H₂ Generation from Water/Ethanol. Journal of the American Chemical Society, 2011, 133, 19362-19365.	13.7	171
14	Photocatalytic activity of TiO2 doped with boron and vanadium. Journal of Hazardous Materials, 2007, 146, 529-534.	12.4	167
15	Nanostructured Cu/TiO₂ Photocatalysts for H₂ Production from Ethanol and Glycerol Aqueous Solutions.. ChemCatChem, 2011, 3, 574-577.	3.7	158
16	Enhanced Hydrogen Production by Photoreforming of Renewable Oxygenates Through Nanostructured Fe₂O₃ Polymorphs. Advanced Functional Materials, 2014, 24, 372-378.	14.9	146
17	Photocatalytic H₂ and Addedâ€Value Byâ€Products â€“ The Role of Metal Oxide Systems in Their Synthesis from Oxygenates. European Journal of Inorganic Chemistry, 2011, 2011, 4309-4323.	2.0	134
18	Metal-free dual-phase full organic carbon nanotubes/g-C3N4 heteroarchitectures for photocatalytic hydrogen production. Nano Energy, 2018, 50, 468-478.	16.0	133

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19	Mixedâ€Valence Singleâ€Atom Catalyst Derived from Functionalized Graphene. Advanced Materials, 2019, 31, e1900323.	21.0	129
20	La_{0.6}Sr_{0.4}Co_{1â^'y}Fe_yO_{3â^'Î´} Perovskites: Influence of the Co/Fe Atomic Ratio on Properties and Catalytic Activity toward Alcohol Steam-Reforming. Chemistry of Materials, 2008, 20, 2314-2327.	6.7	117
21	Vertically oriented CuO/ZnO nanorod arrays: from plasma-assisted synthesis to photocatalytic H2 production. Journal of Materials Chemistry, 2012, 22, 11739.	6.7	108
22	Engineering titania nanostructure to tune and improve its photocatalytic activity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3966-3971.	7.1	106
23	Catalytic Oxidation of Methane: Pd and Beyond. European Journal of Inorganic Chemistry, 2018, 2018, 2884-2893.	2.0	105
24	Methane partial oxidation on NiCu-based catalysts. Catalysis Today, 2009, 145, 176-185.	4.4	104
25	Bimetallic Auâ€“Pt/TiO₂photocatalysts active under UV-A and simulated sunlight for H₂production from ethanol. Green Chemistry, 2012, 14, 330-333.	9.0	104
26	Oxidation enthalpies for reduction of ceria surfaces. Surface Science, 2007, 601, 2512-2519.	1.9	102
27	H₂ Production by Renewables Photoreforming on Ptâ€“Au/TiO₂ Catalysts Activated by Reduction. ChemSusChem, 2012, 5, 1800-1811.	6.8	102
28	Methane Catalytic Combustion over Hierarchical Pd@CeO₂/Siâ€Al₂O₃: Effect of the Presence of Water. ChemCatChem, 2015, 7, 2038-2046.	3.7	98
29	Photocatalytic decolourization of dyes on NiOâ€“ZnO nano-composites. Photochemical and Photobiological Sciences, 2009, 8, 677-682.	2.9	97
30	Synthesis, characterization and photocatalytic activity of NiOâ€“Bi2O3 nanocomposites. Chemical Physics Letters, 2009, 472, 212-216.	2.6	94
31	A Versatile Approach to the Synthesis of Functionalized Thiol-Protected Palladium Nanoparticles. Chemistry of Materials, 2011, 23, 3961-3969.	6.7	94
32	Identification of the Structural Phases of Ce_xZr_{1â^'x}O₂ by Eu(III) Luminescence Studies. Journal of the American Chemical Society, 2009, 131, 13155-13160.	13.7	91
33	Photocatalytic activity of zinc modified Bi2O3. Chemical Physics Letters, 2009, 483, 254-261.	2.6	90
34	Rh(1%)@CexZr1â^'xO2â€“Al2O3 nanocomposites: Active and stable catalysts for ethanol steam reforming. Applied Catalysis B: Environmental, 2007, 71, 125-134.	20.2	89
35	Active and Stable Embedded Au@CeO₂ Catalysts for Preferential Oxidation of CO. Chemistry of Materials, 2010, 22, 4335-4345.	6.7	87
36	Smart Pd Catalyst with Improved Thermal Stability Supported on High-Surface-Area LaFeO₃ Prepared by Atomic Layer Deposition. Journal of the American Chemical Society, 2018, 140, 4841-4848.	13.7	85

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37	Novel embedded Pd@CeO₂catalysts: a way to active and stable catalysts. Dalton Transactions, 2010, 39, 2122-2127.	3.3	80
38	The effect of sulfur dioxide on the activity of hierarchical Pd-based catalysts in methane combustion. Applied Catalysis B: Environmental, 2017, 202, 72-83.	20.2	80
39	Preparation, Characterization, and Electrochemical Properties of Pure and Composite LaNi0.6Fe0.4O3-Based Cathodes for IT-SOFC. Chemistry of Materials, 2007, 19, 5926-5936.	6.7	78
40	Dyeâ€Sensitized Solar Hydrogen Production: The Emerging Role of Metalâ€Free Organic Sensitizers. European Journal of Organic Chemistry, 2016, 2016, 5194-5215.	2.4	77
41	Brookite: Nothing New under the Sun?. Catalysts, 2017, 7, 304.	3.5	71
42	Variations in the Extent of Pyrochlore-Type Cation Ordering in Ce2Zr2O8:Â A tâ€˜â’Ìº Pathway to Low-Temperature Reduction. Chemistry of Materials, 2005, 17, 1157-1166.	6.7	70
43	H2 production by selective photo-dehydrogenation of ethanol in gas and liquid phase on CuOx/TiO2 nanocomposites. RSC Advances, 2013, 3, 21776.	3.6	70
44	Hydrogen production through alcohol steam reforming on Cu/ZnO-based catalysts. Applied Catalysis B: Environmental, 2011, 101, 397-408.	20.2	69
45	Study of the Water-Gas-Shift Reaction on Pd@CeO₂/Al₂O₃ Coreâ’Shell Catalysts. Journal of Physical Chemistry C, 2011, 115, 915-919.	3.1	66
46	Hydrogen production from ethanol steam reforming on M/CeO2/YSZ (M=Ru, Pd, Ag) nanocomposites. Catalysis Today, 2012, 180, 96-104.	4.4	66
47	FeMo-based catalysts for H2 production by NH3 decomposition. Applied Catalysis B: Environmental, 2012, 125, 409-417.	20.2	64
48	Phase Transitions and CO₂ Adsorption Properties of Polymeric Magnesium Formate. Crystal Growth and Design, 2008, 8, 3302-3308.	3.0	62
49	Influence of synthesis route on morphology and electrical properties of LaNi0.6Fe0.4O3. Solid State Ionics, 2006, 177, 2957-2965.	2.7	60
50	Embedded Ru@ZrO₂ Catalysts for H₂ Production by Ammonia Decomposition. ChemCatChem, 2010, 2, 1096-1106.	3.7	59
51	Epitaxial and Strong Support Interactions between Pt and LaFeO₃ Films Stabilize Pt Dispersion. Journal of the American Chemical Society, 2020, 142, 10373-10382.	13.7	58
52	Effects of thermal pretreatment on the redox behaviour of Ce0.5Zr0.5O2: isotopic and spectroscopic studies. Physical Chemistry Chemical Physics, 2002, 4, 149-159.	2.8	57
53	Monolayer Protected Gold Nanoparticles on Ceria for an Efficient CO Oxidation Catalyst. Chemistry of Materials, 2007, 19, 650-651.	6.7	56
54	Dye-sensitized photocatalytic hydrogen production: distinct activity in a glucose derivative of a phenothiazine dye. Chemical Communications, 2016, 52, 6977-6980.	4.1	55

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55	Palladium Carbene Complexes for Selective Alkene Di- and Oligomerization. Organometallics, 2012, 31, 976-986.	2.3	54
56	Promotion of reduction in Ce0.5Zr0.5O2: the pyrochlore structure as effect rather than cause?. Physical Chemistry Chemical Physics, 2004, 6, 1-3.	2.8	53
57	Renewable H₂ from Glycerol Steam Reforming: Effect of La₂O₃ and CeO₂ Addition to Pt/Al₂O₃ catalysts.. ChemSusChem, 2010, 3, 619-628.	6.8	53
58	Hot Electron Collection on Brookite Nanorods Lateral Facets for Plasmon-Enhanced Water Oxidation. ACS Catalysis, 2017, 7, 1270-1278.	11.2	53
59	Palladiumâ€Catalyzed Ethylene/Methyl Acrylate Cooligomerization: Effect of a New Nonsymmetric Î±â€Diimine. ChemCatChem, 2013, 5, 1170-1183.	3.7	52
60	Relationship between Electrical Behavior and Structural Characteristics in Sr-Doped LaNi_{0.6}Fe_{0.4}O_{3â^'Î´} Mixed Oxides. Chemistry of Materials, 2009, 21, 1768-1774.	6.7	51
61	Functionalization of Multiwalled Carbon Nanotubes with Cyclic Nitrones for Materials and Composites: Addressing the Role of CNT Sidewall Defects. Chemistry of Materials, 2011, 23, 1923-1938.	6.7	51
62	Solar and visible light photocatalytic enhancement of halloysite nanotubes/g-C₃N₄ heteroarchitectures. RSC Advances, 2016, 6, 86617-86626.	3.6	50
63	Embedded Rh(1wt.%)@Al2O3: Effects of high temperature and prolonged aging under methane partial oxidation conditions. Applied Catalysis B: Environmental, 2007, 73, 84-97.	20.2	49
64	Alcohol induced ultra-fine dispersion of Pt on tuned morphologies of CeO2 for CO oxidation. Applied Catalysis B: Environmental, 2013, 130-131, 121-131.	20.2	49
65	Tuning Thiopheneâ€Based Phenothiazines for Stable Photocatalytic Hydrogen Production. ChemSusChem, 2015, 8, 4216-4228.	6.8	48
66	Dye-Sensitized Photocatalytic Hydrogen Generation: Efficiency Enhancement by Organic Photosensitizerâ€“Coadsorbent Intermolecular Interaction. ACS Energy Letters, 2018, 3, 85-91.	17.4	48
67	TiO₂â€“mesoporous silica nanocomposites: cooperative effect in the photocatalytic degradation of dyes and drugs. RSC Advances, 2014, 4, 37826-37837.	3.6	47
68	Pd@TiO₂/carbon nanohorn electrocatalysts: reversible CO₂ hydrogenation to formic acid. Energy and Environmental Science, 2018, 11, 1571-1580.	30.8	47
69	Highly efficient hydrogen production through ethanol photoreforming by a carbon nanocone/Pd@TiO₂ hybrid catalyst. Chemical Communications, 2016, 52, 764-767.	4.1	45
70	Photocatalytic valorization of ethanol and glycerol over TiO2 polymorphs for sustainable hydrogen production. Applied Catalysis A: General, 2016, 518, 167-175.	4.3	45
71	Nanostructured Pd Pt nanoparticles: evidences of structure/performance relations in catalytic H2 production reactions. Applied Catalysis B: Environmental, 2018, 236, 88-98.	20.2	45
72	Cross-Linked Carbon Nanotube Adsorbents for Water Treatment: Tuning the Sorption Capacity through Chemical Functionalization. ACS Applied Materials & Interfaces, 2019, 11, 12920-12930.	8.0	45

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73	Pd-Dissolution through a mild and effective one-step reaction and its application for Pd-recovery from spent catalytic converters. Chemical Communications, 2005, , 1040.	4.1	42
74	Synergistic Role of B and F Dopants in Promoting the Photocatalytic Activity of Rutile TiO₂. ChemPhysChem, 2011, 12, 2221-2224.	2.1	42
75	Supported F-Doped <I>Î±</I>-Fe₂O₃ Nanomaterials: Synthesis, Characterization and Photo-Assisted H₂ Production. Journal of Nanoscience and Nanotechnology, 2013, 13, 4962-4968.	0.9	42
76	Photocatalytic H2 production by ethanol photodehydrogenation: Effect of anatase/brookite nanocomposites composition. Inorganica Chimica Acta, 2015, 431, 197-205.	2.4	41
77	Palladium nanoparticles exposure: Evaluation of permeation through damaged and intact human skin. Environmental Pollution, 2016, 214, 497-503.	7.5	41
78	Solar H2generation via ethanol photoreforming on Îµ-Fe2O3nanorod arrays activated by Ag and Au nanoparticles. RSC Advances, 2014, 4, 32174.	3.6	40
79	Making H₂ from light and biomass-derived alcohols: the outstanding activity of newly designed hierarchical MWCNT/Pd@TiO₂ hybrid catalysts. Green Chemistry, 2017, 19, 2379-2389.	9.0	37
80	Improved activity and stability of Pd@CeO2 coreâ€“shell catalysts hybridized with multi-walled carbon nanotubes in the water gas shift reaction. Catalysis Today, 2015, 253, 142-148.	4.4	36
81	Towards Sustainable H₂ Production: Rational Design of Hydrophobic Triphenylamineâ€based Dyes for Sensitized Ethanol Photoreforming. ChemSusChem, 2018, 11, 793-805.	6.8	36
82	Photocatalytic Hydrogen Production by Boron Modified TiO₂/Carbon Nitride Heterojunctions. ChemCatChem, 2019, 11, 6408-6416.	3.7	35
83	A New Porous Hybrid Material Derived From Silica Fume and Alginate for Sustainable Pollutants Reduction. Frontiers in Chemistry, 2018, 6, 60.	3.6	34
84	Palladium-Catalyzed Ethylene/Methyl Acrylate Copolymerization: Moving from the Acenaphthene to the Phenanthrene Skeleton of Î±-Diimine Ligands. Organometallics, 2019, 38, 3498-3511.	2.3	34
85	A high-frequency (95GHz) electron paramagnetic resonance study of B-doped TiO2 photocatalysts. Inorganica Chimica Acta, 2008, 361, 3980-3987.	2.4	32
86	Cerium Oxide Nanoparticles Absorption through Intact and Damaged Human Skin. Molecules, 2019, 24, 3759.	3.8	32
87	Interaction of molecular hydrogen with three-way catalyst model of Pt/Ce0.6Zr0.4O2/Al2O3 type. Journal of Molecular Catalysis A, 2003, 204-205, 683-691.	4.8	31
88	Development of functionalized Feâ€“Alâ€“Cr alloy fibers as innovative catalytic oxidation devices. Catalysis Today, 2008, 137, 475-482.	4.4	30
89	H2 production by photocatalytic reforming of oxygenated compounds using TiO2-based materials. Materials Science in Semiconductor Processing, 2016, 42, 122-130.	4.0	30
90	Magnetic shepherding of nanocatalysts through hierarchically-assembled Fe-filled CNTs hybrids. Applied Catalysis B: Environmental, 2018, 227, 356-365.	20.2	29

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91	Phosphorus poisoning during wet oxidation of methane over Pd@CeO2/graphite model catalysts. Applied Catalysis B: Environmental, 2016, 197, 271-279.	20.2	28
92	Design of dye-sensitized TiO₂ materials for photocatalytic hydrogen production: light and shadow. JPhys Energy, 2021, 3, 031001.	5.3	28
93	Antibonding Plasmon Modes in Colloidal Gold Nanorod Clusters. Langmuir, 2012, 28, 8826-8833.	3.5	27
94	Structural investigation of Ce2Zr2O8 after redox treatments which lead to low temperature reduction. Topics in Catalysis, 2006, 41, 35-42.	2.8	26
95	From trash to resource: recovered-Pd from spent three-way catalysts as a precursor of an effective photo-catalyst for H₂production. Green Chemistry, 2016, 18, 2745-2752.	9.0	26
96	High surface area N/O co-doped carbon materials: Selective electrocatalysts for O2 reduction to H2O2. Catalysis Today, 2020, 356, 132-140.	4.4	26
97	Design of Rh@Ce0.2Zr0.8O2â€“Al2O3 nanocomposite for ethanol steam reforming. Journal of Alloys and Compounds, 2008, 451, 516-520.	5.5	25
98	Permeation of platinum and rhodium nanoparticles through intact and damaged human skin. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	25
99	The water gas shift reaction over Ptâ€“CeO2 nanoparticles confined within mesoporous SBA-16. Journal of Materials Chemistry A, 2017, 5, 20024-20034.	10.3	25
100	Palladiumâ€Catalyzed Ethylene/Methyl Acrylate Coâ€Oligomerization: The Effect of a New Nonsymmetrical Î±â€Diimine with the 1,4â€Diazabutadiene Skeleton. ChemCatChem, 2017, 9, 3402-3411.	3.7	24
101	Enhanced photocatalytic hydrogen generation using carbazole-based sensitizers. Sustainable Energy and Fuels, 2017, 1, 694-698.	4.9	23
102	The first material made for air pollution control able to sequestrate fine and ultrafine air particulate matter. Sustainable Cities and Society, 2020, 53, 101961.	10.4	23
103	Water-Mediated ElectroHydrogenation of CO₂ at Near-Equilibrium Potential by Carbon Nanotubes/Cerium Dioxide Nanohybrids. ACS Applied Energy Materials, 2020, 3, 8509-8518.	5.1	23
104	Analogies and Differences in Palladiumâ€Catalyzed CO/Styrene and Ethylene/Methyl Acrylate Copolymerization Reactions. ChemCatChem, 2014, 6, 2403-2418.	3.7	22
105	SUNSPACE, A Porous Material to Reduce Air Particulate Matter (PM). Frontiers in Chemistry, 2018, 6, 534.	3.6	22
106	Tuning the Properties of Benzothiadiazole Dyes for Efficient Visible Light-Driven Photocatalytic H₂ Production under Different Conditions. ACS Applied Energy Materials, 2020, 3, 8912-8928.	5.1	20
107	The contradictory effect of the methoxy-substituent in palladium-catalyzed ethylene/methyl acrylate cooligomerization. Dalton Transactions, 2018, 47, 2778-2790.	3.3	19
108	NixCuy/Al2O3 based catalysts for hydrogen production. Energy and Environmental Science, 2008, , .	30.8	18

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109	An increase in hydrogen production from light and ethanol using a dual scale porosity photocatalyst. Green Chemistry, 2018, 20, 2299-2307.	9.0	18
110	Olefin Dimerization and Isomerization Catalyzed by Pyridylidene Amide Palladium Complexes. Organometallics, 2018, 37, 3619-3630.	2.3	18
111	Redox and Chemisorptive Properties of Ex-Chloride and Ex-Nitrate Rh/Ce0.6Zr0.4O2 Catalysts. Journal of Catalysis, 2000, 189, 339-348.	6.2	17
112	Hydrogen interaction with Pd/Ce0.8Zr0.2O2 nanocomposites prepared by microemulsion, coprecipitation and supercritical CO2 treatment. Applied Catalysis A: General, 2011, 398, 123-133.	4.3	16
113	Nanostructured carbon supported Pd-ceria as anode catalysts for anion exchange membrane fuel cells fed with polyalcohols. Inorganica Chimica Acta, 2018, 470, 213-220.	2.4	15
114	IR investigation of the interaction of deuterium with Ce0.6Zr0.4O2 and Cl-doped Ce0.6Zr0.4O2. Applied Surface Science, 2006, 252, 8456-8465.	6.1	13
115	Multi-Functional Copper Oxide Nanosystems for H2 Sustainable Production and Sensing. ECS Transactions, 2009, 25, 1169-1176.	0.5	13
116	Effect of the Catalyst Load on Syngas Production in Short Contact Time Catalytic Partial Oxidation Reactors. Industrial & Engineering Chemistry Research, 2010, 49, 1010-1017.	3.7	13
117	Photocatalytic TiO2 nanosheets-SiO2 coatings on concrete and limestone: An enhancement of de-polluting and self-cleaning properties by nanoparticle design. Construction and Building Materials, 2022, 338, 127349.	7.2	13
118	Reduction behavior of nanoparticles of Ce0.8Zr0.2O2 produced by different approaches. International Journal of Hydrogen Energy, 2008, 33, 3549-3554.	7.1	12
119	Sustainable photocatalytic synthesis of benzimidazoles. Inorganica Chimica Acta, 2021, 520, 120289.	2.4	10
120	Coordination chemistry to palladium(II) of pyridylbenzamidine ligands and the related reactivity with ethylene. Inorganica Chimica Acta, 2015, 431, 206-218.	2.4	9
121	Hydrogen adsorption kinetics on Pd/Ce0.8Zr0.2O2. Physical Chemistry Chemical Physics, 2006, 8, 2385.	2.8	8
122	Modulation of N^Nâ€²-bidentate chelating pyridylâ€“pyridylidene amide ligands offers mechanistic insights into Pd-catalysed ethylene/methyl acrylate copolymerisation. Dalton Transactions, 2021, 50, 6133-6145.	3.3	8
123	Effect of the thermal pre-treatments on ceriaâ€“zirconia redox properties: An Eu3+ luminescence study. Journal of Alloys and Compounds, 2008, 451, 617-620.	5.5	7
124	Rh-based catalysts for syngas production via SCT-CPO reactors. Catalysis Today, 2010, 155, 101-107.	4.4	7
125	Interfacial two-dimensional oxide enhances photocatalytic activity of graphene/titania via electronic structure modification. Carbon, 2020, 157, 350-357.	10.3	7
126	Multibranched Calix[4]areneâ€Based Sensitizers for Efficient Photocatalytic Hydrogen Production. European Journal of Organic Chemistry, 2021, 2021, 284-288.	2.4	7

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127	Wet-Chemical Synthesis of Porous Multifaceted Platinum Nanoparticles for Oxygen Reduction and Methanol Oxidation Reactions. ACS Applied Nano Materials, 0, , .	5.0	7
128	Photocatalytic Production of Hydrogen Over Tailored Cu-Embedded TiO₂. Nanoscience and Nanotechnology Letters, 2009, 1, 128-133.	0.4	6
129	Calix[4]arene-based molecular photosensitizers for sustainable hydrogen production and other solar applications. Current Opinion in Green and Sustainable Chemistry, 2021, 32, 100534.	5.9	5
130	Fixed beds of Rh/Al2O3-based catalysts for syngas production in methane SCT-CPO reactors. International Journal of Hydrogen Energy, 2011, 36, 7776-7784.	7.1	3
131	Charge Redistribution at the Embedded Rhâ˜Alumina Interface. Journal of Physical Chemistry C, 2009, 113, 18069-18074.	3.1	1