Hermenegildo Garca Gmez

List of Publications by Citations

837 papers	53,633 citations	107 h-index	205 g-index
879 ext. papers	58,698 ext. citations	8.3 avg, IF	8.36 L-index

#	Paper	IF	Citations
837	Engineering metal organic frameworks for heterogeneous catalysis. *Chemical Reviews*, **2010**, 110, 4606-55	68.1	2969
836	Supported gold nanoparticles as catalysts for organic reactions. *Chemical Society Reviews*, **2008**, 37, 2096-126	58.5	1579
835	A collaborative effect between gold and a support induces the selective oxidation of alcohols. *Angewandte Chemie - International Edition*, **2005**, 44, 4066-9	16.4	913
834	Lewis acids: from conventional homogeneous to green homogeneous and heterogeneous catalysis. *Chemical Reviews*, **2003**, 103, 4307-65	68.1	872
833	Influence of excitation wavelength (UV or visible light) on the photocatalytic activity of titania containing gold nanoparticles for the generation of hydrogen or oxygen from water. *Journal of the American Chemical Society*, **2011**, 133, 595-602	16.4	861
832	Catalysis by metal nanoparticles embedded on metal-organic frameworks. *Chemical Society Reviews* , **2012**, 41, 5262-84	58.5	822
831	Catalysis and photocatalysis by metal organic frameworks. *Chemical Society Reviews*, **2018**, 47, 8134-8172	58.5	751
830	Metal-organic and covalent organic frameworks as single-site catalysts. *Chemical Society Reviews*, **2017**, 46, 3134-3184	58.5	696
829	Catalysis by supported gold nanoparticles: beyond aerobic oxidative processes. *Chemical Reviews*, **2012**, 112, 4469-506	68.1	691
828	Semiconductor behavior of a metal-organic framework (MOF). *Chemistry - A European Journal*, **2007** , 13, 5106-12	4.8	686
827	Hierarchically mesostructured doped CeO2 with potential for solar-cell use. *Nature Materials*, **2004**, 3, 394-7	27	683
826	Metal-Organic Framework (MOF) Compounds: Photocatalysts for Redox Reactions and Solar Fuel Production. *Angewandte Chemie - International Edition*, **2016**, 55, 5414-45	16.4	675
825	Water stable Zr-benzenedicarboxylate metal-organic frameworks as photocatalysts for hydrogen generation. *Chemistry - A European Journal*, **2010**, 16, 11133-8	4.8	613
824	Titania supported gold nanoparticles as photocatalyst. *Physical Chemistry Chemical Physics*, **2011**, 13, 886-910	3.6	597
823	Chiral salen complexes: an overview to recoverable and reusable homogeneous and heterogeneous catalysts. *Chemical Reviews*, **2006**, 106, 3987-4043	68.1	583
822	Silica-Bound Homogenous Catalysts as Recoverable and Reusable Catalysts in Organic Synthesis. *Advanced Synthesis and Catalysis*, **2006**, 348, 1391-1412	5.6	579
821	Gold-catalyzed synthesis of aromatic azo compounds from anilines and nitroaromatics. *Science*, **2008**, 322, 1661-4	33.3	564

820	Lewis acids as catalysts in oxidation reactions: from homogeneous to heterogeneous systems. *Chemical Reviews*, **2002**, 102, 3837-92	68.1	537
819	Carbocatalysis by graphene-based materials. *Chemical Reviews*, **2014**, 114, 6179-212	68.1	512
818	Heterogeneous Fenton catalysts based on clays, silicas and zeolites. *Applied Catalysis B: Environmental*, **2010**, 99, 1-26	21.8	487
817	Photocatalytic CO2 reduction by TiO2 and related titanium containing solids. *Energy and Environmental Science*, **2012**, 5, 9217	35.4	442
816	MOFs as catalysts: Activity, reusability and shape-selectivity of a Pd-containing MOF. *Journal of Catalysis*, **2007**, 250, 294-298	7.3	441
815	Layered double hydroxides as highly efficient photocatalysts for visible light oxygen generation from water. *Journal of the American Chemical Society*, **2009**, 131, 13833-9	16.4	434
814	Gold-copper nanoalloys supported on TiO2 as photocatalysts for CO2 reduction by water. *Journal of the American Chemical Society*, **2014**, 136, 15969-76	16.4	430
813	Metal□rganic frameworks as semiconductors. *Journal of Materials Chemistry*, **2010**, 20, 3141		401
812	Efficient visible-light photocatalytic water splitting by minute amounts of gold supported on nanoparticulate CeO2 obtained by a biopolymer templating method. *Journal of the American Chemical Society*, **2011**, 133, 6930-3	16.4	386
811	Metal-organic frameworks as solid catalysts for the synthesis of nitrogen-containing heterocycles. *Chemical Society Reviews*, **2014**, 43, 5750-65	58.5	382
810	Zeolites as catalysts in oil refining. *Chemical Society Reviews*, **2014**, 43, 7548-61	58.5	372
809	Metal-organic nanoporous structures with anisotropic photoluminescence and magnetic properties and their use as sensors. *Angewandte Chemie - International Edition*, **2008**, 47, 1080-3	16.4	367
808	Catalyst parameters determining activity and selectivity of supported gold nanoparticles for the aerobic oxidation of alcohols: the molecular reaction mechanism. *Chemistry - A European Journal*, **2008**, 14, 212-22	4.8	348
807	Commercial metal-organic frameworks as heterogeneous catalysts. *Chemical Communications*, **2012** , 48, 11275-88	5.8	344
806	Applications for Metal□rganic Frameworks (MOFs) as Quantum Dot Semiconductors. *Journal of Physical Chemistry C*, **2007**, 111, 80-85	3.8	328
805	Metal-organic frameworks catalyzed C-C and C-heteroatom coupling reactions. *Chemical Society Reviews*, **2015**, 44, 1922-47	58.5	299
804	2,4,6-Triphenylpyrylium Tetrafluoroborate as an Electron-Transfer Photosensitizer. *Chemical Reviews*, **1994**, 94, 1063-1089	68.1	276
803	Mixed-Metal MOFs: Unique Opportunities in Metal-Organic Framework (MOF) Functionality and Design. *Angewandte Chemie - International Edition*, **2019**, 58, 15188-15205	16.4	268

802	Catalysis by gold(I) and gold(III): a parallelism between homo- and heterogeneous catalysts for copper-free Sonogashira cross-coupling reactions. *Angewandte Chemie - International Edition*, **2007**, 46, 1536-8	16.4	262
801	Generation and reactions of organic radical cations in zeolites. *Chemical Reviews*, **2002**, 102, 3947-4007	68.1	261
800	Metal□rganic frameworks as heterogeneous catalysts for oxidation reactions. *Catalysis Science and Technology*, **2011**, 1, 856	5.5	257
799	Photocatalytic CO(2) reduction using non-titanium metal oxides and sulfides. *ChemSusChem*, **2013**, 6, 562-77	8.3	251
798	Metal organic frameworks (MOFs) as catalysts: A combination of Cu2+ and Co2+ MOFs as an efficient catalyst for tetralin oxidation. *Journal of Catalysis*, **2008**, 255, 220-227	7.3	248
797	Metal organic frameworks as heterogeneous catalysts for the production of fine chemicals. *Catalysis Science and Technology*, **2013**, 3, 2509	5.5	245
796	Zeolites as base catalysts: Condensation of aldehydes with derivatives of malonic esters. *Applied Catalysis*, **1990**, 59, 237-248		235
795	Photocatalytic reduction of CO2 for fuel production: Possibilities and challenges. *Journal of Catalysis*, **2013**, 308, 168-175	7.3	227
794	Metal nanoparticles as heterogeneous Fenton catalysts. *ChemSusChem*, **2012**, 5, 46-64	8.3	223
793	Metal nanoparticles supported on two-dimensional graphenes as heterogeneous catalysts. *Coordination Chemistry Reviews*, **2016**, 312, 99-148	23.2	222
792	P-doped graphene obtained by pyrolysis of modified alginate as a photocatalyst for hydrogen generation from water-methanol mixtures. *Angewandte Chemie - International Edition*, **2013**, 52, 11813-6	16.4	221
791	Chiral salen manganese complex encapsulated within zeolite Y: aheterogeneous enantioselective catalyst for the epoxidation ofalkenes. *Chemical Communications*, **1997**, 1285-1286	5.8	219
790	From biomass wastes to large-area, high-quality, N-doped graphene: catalyst-free carbonization of chitosan coatings on arbitrary substrates. *Chemical Communications*, **2012**, 48, 9254-6	5.8	217
789	Enhancement of the catalytic activity of supported gold nanoparticles for the Fenton reaction by light. *Journal of the American Chemical Society*, **2011**, 133, 2218-26	16.4	210
788	Zeolite-based photocatalysts. *Chemical Communications*, **2004**, 1443-59	5.8	210
787	Active sites on graphene-based materials as metal-free catalysts. *Chemical Society Reviews*, **2017**, 46, 4501-4529	58.5	205
786	Aerobic Oxidation of Benzylic Alcohols Catalyzed by Metal□rganic Frameworks Assisted by TEMPO. *ACS Catalysis*, **2011**, 1, 48-53	13.1	204
785	Supramolecular Host-Guest Systems in Zeolites Prepared by Ship-in-a-Bottle Synthesis. *European Journal of Inorganic Chemistry*, **2004**, 2004, 1143-1164	2.3	203

784	Intrazeolite Photochemistry: Toward Supramolecular Control of Molecular Photochemistry. *Accounts of Chemical Research*, **1999**, 32, 783-793	24.3	203
783	Complete photocatalytic reduction of CO□ to methane by H□ under solar light irradiation. *Journal of the American Chemical Society*, **2014**, 136, 6798-801	16.4	201
782	Enhancement of the photocatalytic activity of TiO2 through spatial structuring and particle size control: from subnanometric to submillimetric length scale. *Physical Chemistry Chemical Physics*, **2008**, 10, 769-83	3.6	201
781	2D Metal-Organic Frameworks as Multifunctional Materials in Heterogeneous Catalysis and Electro/Photocatalysis. *Advanced Materials*, **2019**, 31, e1900617	24	199
780	Oxime carbapalladacycle covalently anchored to high surface area inorganic supports or polymers as heterogeneous green catalysts for the Suzuki reaction in water. *Journal of Organic Chemistry*, **2004**, 69, 439-46	4.2	194
779	Catalytic activity of unsupported gold nanoparticles. *Catalysis Science and Technology*, **2013**, 3, 58-69	5.5	192
778	Synthesis, photochemistry, and electrochemistry of single-wall carbon nanotubes with pendent pyridyl groups and of their metal complexes with zinc porphyrin. Comparison with pyridyl-bearing fullerenes. *Journal of the American Chemical Society*, **2006**, 128, 6626-35	16.4	189
777	Photocatalytic CO2 Reduction to C2+ Products. *ACS Catalysis*, **2020**, 10, 5734-5749	13.1	184
776	Highly active and selective gold catalysts for the aerobic oxidative condensation of benzylamines to imines and one-pot, two-step synthesis of secondary benzylamines. *Journal of Catalysis*, **2009**, 264, 138-144	7.3	176
775	Metal-organic frameworks as efficient heterogeneous catalysts for the regioselective ring opening of epoxides. *Chemistry - A European Journal*, **2010**, 16, 8530-6	4.8	176
774	Catalytic activity of palladium supported on single wall carbon nanotubes compared to palladium supported on activated carbon: Study of the Heck and Suzuki couplings, aerobic alcohol oxidation and selective hydrogenation. *Journal of Molecular Catalysis A*, **2005**, 230, 97-105		175
773	Efficient chemoselective alcohol oxidation using oxygen as oxidant. Superior performance of gold over palladium catalysts. *Tetrahedron*, **2006**, 62, 6666-6672	2.4	173
772	Unique gold chemoselectivity for the aerobic oxidation of allylic alcohols. *Chemical Communications*, **2006**, 3178-80	5.8	169
771	Comparison of Porous Iron Trimesates Basolite F300 and MIL-100(Fe) As Heterogeneous Catalysts for Lewis Acid and Oxidation Reactions: Roles of Structural Defects and Stability. *ACS Catalysis*, **2012**, 2, 2060-2065	13.1	167
770	Gold catalysts open a new general chemoselective route to synthesize oximes by hydrogenation of alpha,beta-unsaturated nitrocompounds with H2. *Journal of the American Chemical Society*, **2007**, 129, 6358-9	16.4	167
769	Iron(III) metal□organic frameworks as solid Lewis acids for the isomerization of □-pinene oxide. *Catalysis Science and Technology*, **2012**, 2, 324-330	5.5	164
768	Graphene oxide as an acid catalyst for the room temperature ring opening of epoxides. *Chemical Communications*, **2012**, 48, 5443-5	5.8	163
767	Graphenes in the absence of metals as carbocatalysts for selective acetylene hydrogenation and alkene hydrogenation. *Nature Communications*, **2014**, 5, 5291	17.4	161

766	Synthesis and catalytic activity of a chiral periodic mesoporous organosilica (ChiMO). *Chemical Communications*, **2003**, 1860-1	5.8	160
765	A periodic mesoporous organosilica containing a carbapalladacycle complex as heterogeneous catalyst for Suzuki cross-coupling. *Journal of Catalysis*, **2005**, 229, 322-331	7.3	158
764	Mixed-metal or mixed-linker metal organic frameworks as heterogeneous catalysts. *Catalysis Science and Technology*, **2016**, 6, 5238-5261	5.5	157
763	Gold on diamond nanoparticles as a highly efficient Fenton catalyst. *Angewandte Chemie - International Edition*, **2010**, 49, 8403-7	16.4	156
762	Surface area measurement of graphene oxide in aqueous solutions. *Langmuir*, **2013**, 29, 13443-8	4	155
761	Comparison of the catalytic activity of MOFs and zeolites in Knoevenagel condensation. *Catalysis Science and Technology*, **2013**, 3, 500-507	5.5	155
760	Vanadyl salen complexes covalently anchored to single-wall carbon nanotubes as heterogeneous catalysts for the cyanosilylation of aldehydes. *Journal of Catalysis*, **2004**, 221, 77-84	7.3	155
759	Metal organic frameworks as efficient heterogeneous catalysts for the oxidation of benzylic compounds with t-butylhydroperoxide. *Journal of Catalysis*, **2009**, 267, 1-4	7.3	153
758	Gold catalyzes the Sonogashira coupling reaction without the requirement of palladium impurities. *Chemical Communications*, **2011**, 47, 1446-8	5.8	150
757	Metal Organic Frameworks as Versatile Hosts of Au Nanoparticles in Heterogeneous Catalysis. *ACS Catalysis*, **2017**, 7, 2896-2919	13.1	148
756	Heterogeneous fenton catalysts based on activated carbon and related materials. *ChemSusChem*, **2011**, 4, 1712-30	8.3	145
755	Visible Light Induced Organic Transformations Using Metal-Organic-Frameworks (MOFs). *Chemistry - A European Journal*, **2017**, 23, 11189-11209	4.8	143
754	Design of synthetic zeolites as catalysts in organic reactions. *Applied Catalysis*, **1989**, 49, 109-123		142
753	Cascade reactions catalyzed by metal organic frameworks. *ChemSusChem*, **2014**, 7, 2392-410	8.3	137
752	An oxime-carbapalladacycle complex covalently anchored to silica as an active and reusable heterogeneous catalyst for Suzuki cross-coupling in water. *Chemical Communications*, **2003**, 606-7	5.8	137
751	Periodic mesoporous organosilica incorporating a catalytically active vanadyl Schiff base complex in the framework. *Journal of Catalysis*, **2004**, 223, 106-113	7.3	136
750	Delineating similarities and dissimilarities in the use of metal organic frameworks and zeolites as heterogeneous catalysts for organic reactions. *Dalton Transactions*, **2011**, 40, 6344-60	4.3	133
749	Modified faujasite zeolites as catalysts in organic reactions: Esterification of carboxylic acids in the presence of HY zeolites. *Journal of Catalysis*, **1989**, 120, 78-87	7.3	132

748	Aerobic oxidation of thiols to disulfides using iron metal-organic frameworks as solid redox catalysts. *Chemical Communications*, **2010**, 46, 6476-8	5.8	129
747	Nafion-Functionalized mesoporous MCM-41 silica shows high activity and selectivity for carboxylic acid esterification and Friedel-Crafts acylation reactions. *Journal of Catalysis*, **2005**, 231, 48-55	7.3	129
746	Mesoporous aluminosilicate MCM-41 as a convenient acid catalyst for Friedel-Crafts alkylation of a bulky aromatic compound with cinnamyl alcohol. *Journal of the Chemical Society Chemical Communications*, **1995**, 519-520		128
745	Fenton-treated functionalized diamond nanoparticles as gene delivery system. *ACS Nano*, **2010**, 4, 65-74	16.7	125
744	Metal Organic Frameworks as Solid Acid Catalysts for Acetalization of Aldehydes with Methanol. *Advanced Synthesis and Catalysis*, **2010**, 352, 3022-3030	5.6	122
743	Crossing the Borders Between Homogeneous and Heterogeneous Catalysis: Developing Recoverable and Reusable Catalytic Systems. *Topics in Catalysis*, **2008**, 48, 8-31	2.3	122
742	Doped graphene as a metal-free carbocatalyst for the selective aerobic oxidation of benzylic hydrocarbons, cyclooctane and styrene. *Chemistry - A European Journal*, **2013**, 19, 7547-54	4.8	121
741	Biodistribution of amino-functionalized diamond nanoparticles. In vivo studies based on 18F radionuclide emission. *ACS Nano*, **2011**, 5, 5552-9	16.7	120
740	N-doped graphene derived from biomass as a visible-light photocatalyst for hydrogen generation from water/methanol mixtures. *Chemistry - A European Journal*, **2014**, 20, 187-94	4.8	118
739	K10 montmorillonite clays as environmentally benign catalysts for organic reactions. *Catalysis Science and Technology*, **2014**, 4, 2378-2396	5.5	117
738	Aerobic Oxidation of Benzyl Amines to Benzyl Imines Catalyzed by Metal-Organic Framework Solids. *ChemCatChem*, **2010**, 2, 1438-1443	5.2	116
737	Chiral vanadyl salen complex anchored on supports as recoverable catalysts for the enantioselective cyanosilylation of aldehydes. Comparison among silica, single wall carbon nanotube, activated carbon and imidazolium ion as support. *Tetrahedron*, **2004**, 60, 10461-10468	2.4	116
736	Production of C4 and C5 alcohols from biomass-derived materials. *Green Chemistry*, **2016**, 18, 2579-2597	10	115
735	Sidewall Functionalization of Single-Walled Carbon Nanotubes with Nitrile Imines. Electron Transfer from the Substituent to the Carbon Nanotube. *Journal of Physical Chemistry B*, **2004**, 108, 12691-12697	3.4	110
734	Metal-Organic Frameworks as Catalysts for Oxidation Reactions. *Chemistry - A European Journal*, **2016**, 22, 8012-24	4.8	109
733	Intrazeolite Photochemistry. 17. Zeolites as Electron Donors: Photolysis of Methylviologen Incorporated within Zeolites. *Journal of Physical Chemistry B*, **1997**, 101, 3043-3051	3.4	108
732	Polyethyleneglycol as scaffold and solvent for reusable CC coupling homogeneous Pd catalysts. *Journal of Catalysis*, **2006**, 240, 87-99	7.3	108
731	Highly Efficient Photoinduced Electron Transfer with 2,4,6-Triphenylpyrylium Cation Incorporated inside Extra Large Pore Zeotype MCM-41. *Journal of the American Chemical Society*, **1994**, 116, 9767-9768	16.4	108

730	MIL-101 promotes the efficient aerobic oxidative desulfurization of dibenzothiophenes. *Green Chemistry*, **2016**, 18, 508-515	10	106
729	2,4,6-triphenylpyrylium ion encapsulated into zeolite Y as a selective electrode for the electrochemical determination of dopamine in the presence of ascorbic acid. *Analytical Chemistry*, **2002**, 74, 562-9	7.8	106
728	Solar light photocatalytic CO2 reduction: general considerations and selected bench-mark photocatalysts. *International Journal of Molecular Sciences*, **2014**, 15, 5246-62	6.3	105
727	Chiral copper(II) bisoxazoline covalently anchored to silica and mesoporous MCM-41 as a heterogeneous catalyst for the enantioselective Friedel-Crafts hydroxyalkylation. *Chemical Communications*, **2002**, 1058-9	5.8	105
726	111 oriented gold nanoplatelets on multilayer graphene as visible light photocatalyst for overall water splitting. *Nature Communications*, **2016**, 7, 11819	17.4	104
725	Engineering UiO-66 Metal Organic Framework for Heterogeneous Catalysis. *ChemCatChem*, **2019**, 11, 899-923	5.2	104
724	Intermolecular [2 + 2] Cycloaddition of Alkyne-Alkene Catalyzed by Au(I) Complexes. What Are the Catalytic Sites Involved?. *ACS Catalysis*, **2011**, 1, 1647-1653	13.1	103
723	Single-step preparation and catalytic activity of mesoporous MCM-41 and SBA-15 silicas functionalized with perfluoroalkylsulfonic acid groups analogous to Nafion. *Chemical Communications*, **2004**, 956-7	5.8	103
722	Catalysis by metal-organic frameworks in water. *Chemical Communications*, **2014**, 50, 12800-14	5.8	101
721	CO fixation using recoverable chromium salen catalysts: use of ionic liquids as cosolvent or high-surface-area silicates as supports. *Journal of Catalysis*, **2004**, 228, 254-258	7.3	100
720	The synthesis of a hybrid graphene□ickel/manganese mixed oxide and its performance in lithium-ion batteries. *Carbon*, **2012**, 50, 518-525	10.4	99
719	Reaction of chlorine dioxide with emergent water pollutants: product study of the reaction of three beta-lactam antibiotics with ClO(2). *Water Research*, **2008**, 42, 1935-42	12.5	99
718	Iron phthalocyanine supported on silica or encapsulated inside zeolite Y as solid photocatalysts for the degradation of phenols and sulfur heterocycles. *Applied Catalysis B: Environmental*, **2005**, 57, 37-42	21.8	99
717	Electrochemistry of Metal□rganic Frameworks: A Description from the Voltammetry of Microparticles Approach. *Journal of Physical Chemistry C*, **2007**, 111, 13701-13711	3.8	97
716	Visible-light photocatalytic activity of gold nanoparticles supported on template-synthesized mesoporous titania for the decontamination of the chemical warfare agent Soman. *Applied Catalysis B: Environmental*, **2010**, 99, 191-197	21.8	96
715	Active sites for the liquid-phase beckmann rearrangement of cyclohexanone, acetophenone and cyclododecanone oximes, catalyzed by beta zeolites. *Journal of Catalysis*, **1998**, 177, 267-272	7.3	96
714	Photocatalytic activity of structured mesoporous TiO2 materials. *Journal of Physical Chemistry B*, **2006**, 110, 6661-5	3.4	96
713	Aerobic oxidation of cycloalkenes catalyzed by iron metal organic framework containing N-hydroxyphthalimide. *Journal of Catalysis*, **2012**, 289, 259-265	7.3	95

712	Claisen–Schmidt Condensation Catalyzed by Metal-Organic Frameworks. *Advanced Synthesis and Catalysis*, **2010**, 352, 711-717	5.6	93
711	Photobiocatalysis: the power of combining photocatalysis and enzymes. *Chemistry - A European Journal*, **2015**, 21, 10940-59	4.8	92
710	Metal organic frameworks for biomass conversion. *Chemical Society Reviews*, **2020**, 49, 3638-3687	58.5	91
709	Aerobic Oxidation of Styrenes Catalyzed by an Iron Metal Organic Framework. *ACS Catalysis*, **2011**, 1, 836-840	13.1	91
708	Comparison between polyethylenglycol and imidazolium ionic liquids as solvents for developing a homogeneous and reusable palladium catalytic system for the Suzuki and Sonogashira coupling. *Tetrahedron*, **2005**, 61, 9848-9854	2.4	91
707	Evidence of photoinduced charge separation in the metal-organic framework MIL-125(Ti)-NH2. *ChemPhysChem*, **2012**, 13, 3651-4	3.2	90
706	An imidazolium ionic liquid having covalently attached an oxime carbapalladacycle complex as ionophilic heterogeneous catalysts for the Heck and Suzuki–Miyaura cross-coupling. *Tetrahedron*, **2004**, 60, 8553-8560	2.4	90
705	Metal organic frameworks as heterogeneous catalysts for the selective N-methylation of aromatic primary amines with dimethyl carbonate. *Applied Catalysis A: General*, **2010**, 378, 19-25	5.1	89
704	Complexation and fluorescence of tricyclic basic dyes encapsulated in cucurbiturils. *ChemPhysChem* , **2008**, 9, 713-20	3.2	89
703	Vanadyl salen complexes covalently anchored to an imidazolium ion as catalysts for the cyanosilylation of aldehydes in ionic liquids. *Tetrahedron Letters*, **2003**, 44, 6813-6816	2	89
702	Spectroscopic Evidence in Support of the Molecular Orbital Confinement Concept: Case of Anthracene Incorporated in Zeolites. *Journal of the American Chemical Society*, **2000**, 122, 6520-6521	16.4	88
701	Copper-doped titania photocatalysts for simultaneous reduction of CO2 and production of H2 from aqueous sulfide. *Applied Catalysis B: Environmental*, **2016**, 180, 263-270	21.8	87
700	Production of H2 by Ethanol Photoreforming on Au/TiO2. *Advanced Functional Materials*, **2014**, 24, 241-248	13.6	87
699	Metal-Organic Frameworks (MOFs) as Heterogeneous Catalysts for the Chemoselective Reduction of Carbon-Carbon Multiple Bonds with Hydrazine. *Advanced Synthesis and Catalysis*, **2009**, 351, 2271-2276	5.6	87
698	MIL-101 as Reusable Solid Catalyst for Autoxidation of Benzylic Hydrocarbons in the Absence of Additional Oxidizing Reagents. *ACS Catalysis*, **2015**, 5, 3216-3224	13.1	86
697	Ceria nanoparticles as heterogeneous catalyst for CO2 fixation by omega-aminoalcohols. *Chemical Communications*, **2010**, 46, 4181-3	5.8	85
696	Catalysis by Gold(I) and Gold(III): A Parallelism between Homo- and Heterogeneous Catalysts for Copper-Free Sonogashira Cross-Coupling Reactions. *Angewandte Chemie*, **2007**, 119, 1558-1560	3.6	85
695	A periodic mesoporous organosilica containing electron acceptor viologen units. *Chemical Communications*, **2001**, 2546-2547	5.8	84

694	Cucurbituril complexes cross the cell membrane. *Photochemical and Photobiological Sciences*, **2009**, 8, 1743-7	4.2	83
693	Photoinduced Electron Transfer within Zeolite Cavities: cis-Stilbene Isomerization Photosensitized by 2,4,6-Triphenylpyrylium Cation Imprisoned inside Zeolite Y. *Journal of the American Chemical Society*, **1994**, 116, 2276-2280	16.4	83
692	Metal organic frameworks as catalysts in solvent-free or ionic liquid assisted conditions. *Green Chemistry*, **2018**, 20, 86-107	10	82
691	Stereoselective single (copper) or double (platinum) boronation of alkynes catalyzed by magnesia-supported copper oxide or platinum nanoparticles. *Chemistry - A European Journal*, **2011**, 17, 2467-78	4.8	82
690	Acid□Base Bifunctional Catalysts for the Preparation of Fine Chemicals: Synthesis of Jasminaldehyde. *Journal of Catalysis*, **2001**, 197, 385-393	7.3	82
689	Graphene supported NiO/Ni nanoparticles as efficient photocatalyst for gas phase CO2 reduction with hydrogen. *Applied Catalysis B: Environmental*, **2018**, 224, 563-571	21.8	81
688	A cerium-based metal□organic framework having inherent oxidase-like activity applicable for colorimetric sensing of biothiols and aerobic oxidation of thiols. *CrystEngComm*, **2017**, 19, 5915-5925	3.3	81
687	Photochemical Response of Commercial MOFs: Al2(BDC)3 and Its Use As Active Material in Photovoltaic Devices. *Journal of Physical Chemistry C*, **2011**, 115, 22200-22206	3.8	81
686	Zn2+-K10-clay (clayzic) as an efficient water-tolerant, solid acid catalyst for the synthesis of benzimidazoles and quinoxalines at room temperature. *Tetrahedron Letters*, **2011**, 52, 69-73	2	81
685	Synthesis of Chiral Periodic Mesoporous Silicas (ChiMO) of MCM-41 Type with Binaphthyl and Cyclohexadiyl Groups Incorporated in the Framework and Direct Measurement of Their Optical Activity. *Chemistry of Materials*, **2004**, 16, 2222-2228	9.6	81
684	Polymer-bound aluminium salen complex as reusable catalysts for CO2 insertion into epoxides. *Tetrahedron*, **2005**, 61, 12131-12139	2.4	81
683	Heterolytic and heterotopic dissociation of hydrogen on ceria-supported gold nanoparticles. Combined inelastic neutron scattering and FT-IR spectroscopic study on the nature and reactivity of surface hydrogen species. *Chemical Science*, **2010**, 1, 731	9.4	80
682	On the activity of chiral chromium salen complexes covalently bound to solid silicates for the enantioselective epoxide ring opening. *Applied Catalysis A: General*, **2002**, 228, 279-288	5.1	80
681	The necessity of structural irregularities for the chemical applications of graphene. *Materials Today Chemistry*, **2017**, 4, 1-16	6.2	79
680	Ti as Mediator in the Photoinduced Electron Transfer of Mixed-Metal NH2□iO-66(Zr/Ti): Transient Absorption Spectroscopy Study and Application in Photovoltaic Cell. *Journal of Physical Chemistry C* , **2017**, 121, 7015-7024	3.8	78
679	From biomass wastes to highly efficient CO□adsorbents: graphitisation of chitosan and alginate biopolymers. *ChemSusChem*, **2012**, 5, 2207-14	8.3	78
678	General Strategy for High-Density Covalent Functionalization of Diamond Nanoparticles Using Fenton Chemistry. *Chemistry of Materials*, **2009**, 21, 4505-4514	9.6	78
677	Tuneable nature of metal organic frameworks as heterogeneous solid catalysts for alcohol oxidation. *Chemical Communications*, **2017**, 53, 10851-10869	5.8	75

676	Selective isomerization of epoxides to allylic alcohols catalyzed by TiO2-supported gold nanoparticles. *Angewandte Chemie - International Edition*, **2009**, 48, 3133-6	16.4	75
675	Graphenes as Efficient Metal-Free Fenton Catalysts. *Chemistry - A European Journal*, **2015**, 21, 11966-71	4.8	73
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