

# Gang-Gang Chang

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6264760/gang-gang-chang-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

69

papers

3,052

citations

25

h-index

54

g-index

81

ext. papers

3,754

ext. citations

8.5

avg, IF

5.53

L-index

#	Paper	IF	Citations
69	Hierarchically porous materials: synthesis strategies and structure design. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 481-558	58.5	784
68	Potential of microporous metal-organic frameworks for separation of hydrocarbon mixtures. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 3612-3641	35.4	428
67	Immobilization of Ag(i) into a metal-organic framework with -SO <sub>3</sub> H sites for highly selective olefin-paraffin separation at room temperature. <i>Chemical Communications</i> , <b>2015</b> , 51, 2859-62	5.8	136
66	Fine Tuning and Specific Binding Sites with a Porous Hydrogen-Bonded Metal-Complex Framework for Gas Selective Separations. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 4596-4603	16.4	115
65	Hierarchical CdS/m-TiO <sub>2</sub> /G ternary photocatalyst for highly active visible light-induced hydrogen production from water splitting with high stability. <i>Nano Energy</i> , <b>2018</b> , 47, 8-17	17.1	103
64	Nitrogen-doped hollow porous carbon polyhedrons embedded with highly dispersed Pt nanoparticles as a highly efficient and stable hydrogen evolution electrocatalyst. <i>Nano Energy</i> , <b>2017</b> , 40, 88-94	17.1	96
63	Homojunction of Oxygen and Titanium Vacancies and its Interfacial n-p Effect. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802173	24	86
62	Confinement Effects in Zeolite-Confined Noble Metals. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 12340-12354	16.4	82
61	Catalytic dehydration of glucose to 5-hydroxymethylfurfural with a bifunctional metal-organic framework. <i>AIChE Journal</i> , <b>2016</b> , 62, 4403-4417	3.6	75
60	One-Pot Synthesis of Catalytically Stable and Active Nanoreactors: Encapsulation of Size-Controlled Nanoparticles within a Hierarchically Macroporous Core@Ordered Mesoporous Shell System. <i>Advanced Materials</i> , <b>2009</b> , 21, 1368-1372	24	72
59	Control of interpenetration in a microporous metal-organic framework for significantly enhanced C <sub>2</sub> H <sub>2</sub> /CO <sub>2</sub> separation at room temperature. <i>Chemical Communications</i> , <b>2016</b> , 52, 3494-6	5.8	71
58	Fabrication of cuprous nanoparticles in MIL-101: an efficient adsorbent for the separation of olefin-paraffin mixtures. <i>RSC Advances</i> , <b>2014</b> , 4, 20230-20233	3.7	68
57	Construction of Hierarchical Metal-Organic Frameworks by Competitive Coordination Strategy for Highly Efficient CO Conversion. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904969	24	67
56	One particle@one cell: Highly monodispersed PtPd bimetallic nanoparticles for enhanced oxygen reduction reaction. <i>Nano Energy</i> , <b>2014</b> , 8, 214-222	17.1	55
55	A microporous hydrogen-bonded organic framework with amine sites for selective recognition of small molecules. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8292-8296	13	50
54	Insight into the catalytic properties and applications of metal-organic frameworks in the cyanosilylation of aldehydes. <i>RSC Advances</i> , <b>2015</b> , 5, 79355-79360	3.7	50
53	"Self-repairing" nanoshell for cell protection. <i>Chemical Science</i> , <b>2015</b> , 6, 486-491	9.4	46

52	Single cells in nanoshells for the functionalization of living cells. <i>Nanoscale</i> , <b>2018</b> , 10, 3112-3129	7.7	45
51	Spatial Heterojunction in Nanostructured TiO and Its Cascade Effect for Efficient Photocatalysis. <i>Nano Letters</i> , <b>2020</b> , 20, 3122-3129	11.5	38
50	A microporous metal-organic framework with polarized trifluoromethyl groups for high methane storage. <i>Chemical Communications</i> , <b>2015</b> , 51, 14789-92	5.8	35
49	Hierarchical MoS @TiO Heterojunctions for Enhanced Photocatalytic Performance and Electrocatalytic Hydrogen Evolution. <i>Chemistry - an Asian Journal</i> , <b>2018</b> , 13, 1609-1615	4.5	33
48	Confinement Effects in Zeolite-Confined Noble Metals. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 12468-12482	3.6	32
47	A Fluorinated Metal-Organic Framework for High Methane Storage at Room Temperature. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 3395-3399	3.5	28
46	Bimetallic (Zn/Co) MOFs-Derived Highly Dispersed Metallic Co/HPC for Completely Hydrolytic Dehydrogenation of Ammonia Borane. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 7209-7216	3.9	27
45	Nitrogen precursor-mediated construction of N-doped hierarchically porous carbon-supported Pd catalysts with controllable morphology and composition. <i>Carbon</i> , <b>2020</b> , 159, 451-460	10.4	25
44	High viscosity to highly dispersed PtPd bimetallic nanocrystals for enhanced catalytic activity and stability. <i>Chemical Communications</i> , <b>2016</b> , 52, 8219-22	5.8	25
43	Highly Enhanced Gas Uptake and Selectivity via Incorporating Methoxy Groups into a Microporous Metal-Organic Framework. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 2172-2177	3.5	21
42	Highly dispersed PtPd on graphitic nanofibers and its heavy d-effect. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 259, 118080	21.8	20
41	Hierarchically porous graphene for batteries and supercapacitors. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 5634-5655	3.6	20
40	A Three-Dimensional Tetraphenyl-ethene-Based Metal-Organic Framework for Selective Gas Separation and Luminescence Sensing of Metal Ions. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 4470-4475	2.3	19
39	Interfacial co-existence of oxygen and titanium vacancies in nanostructured TiO for enhancement of carrier transport. <i>Nanoscale</i> , <b>2020</b> , 12, 8364-8370	7.7	18
38	Spatially Ordered Arrangement of Multifunctional Sites at Molecule Level in a Single Catalyst for Tandem Synthesis of Cyclic Carbonates. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 1736-1745	5.1	17
37	Synergistic catalysis of Pd nanoparticles with both Lewis and Bronsted acid sites encapsulated within a sulfonated metal-organic frameworks toward one-pot tandem reactions. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 557, 207-215	9.3	16
36	Hydrogen Evolution Enhancement over a Cobalt-Based Schottky Interface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 27641-27647	9.5	16
35	Hierarchically Dual-Mesoporous TiO Microspheres for Enhanced Photocatalytic Properties and Lithium Storage. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 13246-13252	4.8	14

34	PtPd hollow nanocubes with enhanced alloy effect and active facets for efficient methanol oxidation reaction. <i>Chemical Communications</i> , <b>2021</b> , 57, 986-989	5.8	14
33	Highly efficient and selective removal of N-heterocyclic aromatic contaminants from liquid fuels in a Ag(I) functionalized metal-organic framework: Contribution of multiple interaction sites. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 518, 149-155	9.3	13
32	Spatial acid-base-Pd triple-sites of a hierarchical core-shell structure for three-step tandem reaction. <i>Chemical Communications</i> , <b>2020</b> , 56, 6297-6300	5.8	12
31	Salt-enhanced removal of 2-ethyl-1-hexanol from aqueous solutions by adsorption on activated carbon. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 412, 7-12	9.3	11
30	Synthesis of hydrophobic and hydrophilic TiO nanofluids for transformable surface wettability and photoactive coating. <i>Chemical Communications</i> , <b>2019</b> , 55, 9275-9278	5.8	10
29	Shape-Controlled Surface-Coating to Pd@Mesoporous Silica Core-Shell Nanocatalysts with High Catalytic Activity and Stability. <i>Chemistry - an Asian Journal</i> , <b>2018</b> , 13, 31-34	4.5	10
28	Hierarchically Fractal PtPdCu Sponges and their Directed Mass- and Electron-Transfer Effects. <i>Nano Letters</i> , <b>2021</b> , 21, 7870-7878	11.5	10
27	All-around coating of CoNi nanoalloy using a hierarchically porous carbon derived from bimetallic MOFs for highly efficient hydrolytic dehydrogenation of ammonia-borane. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 3021-3027	3.6	9
26	Control of the Interfacial Wettability to Synthesize Highly Dispersed PtPd Nanocrystals for Efficient Oxygen Reduction Reaction. <i>Chemistry - an Asian Journal</i> , <b>2018</b> , 13, 1119-1123	4.5	9
25	Adsorption of 2-Butyl-2-ethyl-1,3-propanediol from Aqueous Solutions on Activated Carbon: Salt-Out Effect on Equilibrium, Kinetics, and Dynamics. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 8592-8598	3.9	9
24	bFGF and Poly-RGD Cooperatively Establish Biointerface for Stem Cell Adhesion, Proliferation, and Differentiation. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1700702	4.6	8
23	Integrated-Trifunctional Single Catalyst with Fine Spatial Distribution via Stepwise Anchored Strategy for Multistep Autotandem Catalysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 966-976	8.3	7
22	Ultralong PtPd Alloyed Nanowires Anchored on Graphene for Efficient Methanol Oxidation Reaction. <i>Chemistry - an Asian Journal</i> , <b>2021</b> , 16, 1130-1137	4.5	7
21	Cobalt-Based MOF-Derived CoP/Hierarchical Porous Carbon (HPC) Composites as Robust Catalyst for Efficient Dehydrogenation of Ammonia-Borane. <i>ChemistrySelect</i> , <b>2020</b> , 5, 2190-2196	1.8	6
20	Construction of a functionalized hierarchical pore metal-organic framework via a palladium-reduction induced strategy. <i>Nanoscale</i> , <b>2020</b> , 12, 6250-6255	7.7	6
19	Graphene Oxide Coating Enhances Adsorption of Lead Ions on Mesoporous SiO <sub>2</sub> Spheres. <i>Chemistry Letters</i> , <b>2018</b> , 47, 210-212	1.7	6
18	Template-free synthesis to micro-meso-macroporous hierarchy in nanostructured MIL-101(Cr) with enhanced catalytic activity. <i>Science China Materials</i> , <b>2021</b> , 64, 252-258	7.1	6
17	Tuning the Intrinsic Activity and Electrochemical Surface Area of MoS via Tiny Zn Doping: Toward an Efficient Hydrogen Evolution Reaction (HER) Catalyst. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 15992-15999	4.8	6

16	Silica coating with well-defined micro-nano hierarchy for universal and stable surface superhydrophobicity. <i>Chemical Physics Letters</i> , <b>2019</b> , 730, 594-599	2.5	5
15	Nickel nanoparticles supported on a covalent triazine framework as electrocatalyst for oxygen evolution reaction and oxygen reduction reactions. <i>Beilstein Journal of Nanotechnology</i> , <b>2020</b> , 11, 770-781		5
14	One-pot synthesis of hierarchical CdS/MoS <sub>2</sub> /rGO with enhanced (photo)electrocatalytic activities. <i>Chemical Physics Letters</i> , <b>2020</b> , 759, 138047	2.5	5
13	Highly Efficient Heterogeneous Catalytic Reduction of Fe(II)EDTA-NO in Industrial Denitrification Solution over Pd/AC Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 22875-22883	3.9	5
12	Confinement Effects in Individual Carbon Encapsulated Nonprecious Metal-Based Electrocatalysts. <i>Advanced Functional Materials</i> , 2110851	15.6	5
11	Highly Dispersed Pt Nanoparticles Embedded in N-Doped Porous Carbon for Efficient Hydrogen Evolution. <i>Chemistry - an Asian Journal</i> , <b>2021</b> , 16, 1878-1881	4.5	4
10	Confined Thermolysis for Oriented N-Doped Carbon Supported Pd toward Stable Catalytic and Energy Storage Applications. <i>Small</i> , <b>2021</b> , 17, e2002811	11	4
9	A hierarchically multifunctional integrated catalyst with intimate and synergistic active sites for one-pot tandem catalysis. <i>Inorganic Chemistry Frontiers</i> , <b>2021</b> , 8, 3463-3472	6.8	4
8	Hydrophilic Pd/MgO Nanosystem for the Highly Efficient Aqueous-Phase Catalysis of Suzuki-Miyaura Reactions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 81-87	3.9	3
7	Titanium Vacancies in TiO Nanofibers Enable Highly Efficient Photodriven Seawater Splitting. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 14202-14208	4.8	3
6	Multifunctional Pd/MOFs@MOFs Confined Core-Shell Catalysts with Wrinkled Surface for Selective Catalysis. <i>Chemistry - an Asian Journal</i> , <b>2021</b> , 16, 3743-3747	4.5	2
5	Hollow MOF capsule encapsulated amino-functionalized ionic liquid for excellent CO <sub>2</sub> catalytic conversion. <i>Chinese Journal of Chemical Engineering</i> , <b>2020</b> , 40, 124-124	3.2	1
4	Synthesis and Kinetics of the -(2-Methyl-6-ethyl phenyl)-1-methoxypropyl-2-imine Schiff Base Catalyzed by NKC-9 Cation Exchange Resin. <i>ACS Omega</i> , <b>2019</b> , 4, 14750-14758	3.9	0
3	A Zeolite-confined Pd/Acid Sites for High Efficiency of B <sub>10</sub> H <sub>12</sub> Cleavage. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2021</b> , 647, 1603-1606	1.3	0
2	Titanium Vacancies in TiO Nanofibers Enable Highly Efficient Photodriven Seawater Splitting. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 14142	4.8	
1	A facile synthesis of hierarchically porous graphene for high-performance lithium storage. <i>New Journal of Chemistry</i> ,	3.6	