

# Lieven Gevers

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

2,886  
citations

257450

24  
h-index

454955

30  
g-index

31  
all docs

31  
docs citations

31  
times ranked

2903  
citing authors

#	ARTICLE	IF	CITATIONS
1	A techno-economic and life cycle assessment for the production of green methanol from CO <sub>2</sub> : catalyst and process bottlenecks. <i>Journal of Energy Chemistry</i> , 2022, 68, 255-266.	12.9	43
2	Selectivity descriptors for the direct hydrogenation of CO <sub>2</sub> to hydrocarbons during zeolite-mediated bifunctional catalysis. <i>Nature Communications</i> , 2021, 12, 5914.	12.8	43
3	Acidity modification of ZSM-5 for enhanced production of light olefins from CO <sub>2</sub> . <i>Journal of Catalysis</i> , 2020, 381, 347-354.	6.2	52
4	Stable High-Pressure Methane Dry Reforming Under Excess of CO <sub>2</sub> . <i>ChemCatChem</i> , 2020, 12, 5919-5925.	3.7	17
5	Metal-Organic Framework-Derived Synthesis of Cobalt Indium Catalysts for the Hydrogenation of CO <sub>2</sub> to Methanol. <i>ACS Catalysis</i> , 2020, 10, 5064-5076.	11.2	88
6	Coated sulfated zirconia/SAPO-34 for the direct conversion of CO <sub>2</sub> to light olefins. <i>Catalysis Science and Technology</i> , 2020, 10, 1507-1517.	4.1	34
7	Turning a Methanation Co Catalyst into an In-Co Methanol Producer. <i>ACS Catalysis</i> , 2019, 9, 6910-6918.	11.2	88
8	Effect of Zeolite Topology and Reactor Configuration on the Direct Conversion of CO <sub>2</sub> to Light Olefins and Aromatics. <i>ACS Catalysis</i> , 2019, 9, 6320-6334.	11.2	144
9	Tandem Conversion of CO <sub>2</sub> to Valuable Hydrocarbons in Highly Concentrated Potassium Iron Catalysts. <i>ChemCatChem</i> , 2019, 11, 2879-2886.	3.7	57
10	Conversion of Formic Acid into Methanol Using a Bipyridine-Functionalized Molecular Heterogeneous Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3933-3939.	6.7	17
11	Ni-Sn-Supported ZrO <sub>2</sub> Catalysts Modified by Indium for Selective CO <sub>2</sub> Hydrogenation to Methanol. <i>ACS Omega</i> , 2018, 3, 3688-3701.	3.5	130
12	Metal Organic Framework-Derived Iron Catalysts for the Direct Hydrogenation of CO <sub>2</sub> to Short Chain Olefins. <i>ACS Catalysis</i> , 2018, 8, 9174-9182.	11.2	155
13	A robust multistage mesoflow reactor for liquid-liquid extraction for the separation of Co/Ni with cyanex 272. <i>Separation and Purification Technology</i> , 2016, 168, 32-38.	7.9	9
14	A New Class of Atomically Precise, Hydride-Rich Silver Nanoclusters Co-Protected by Phosphines. <i>Journal of the American Chemical Society</i> , 2016, 138, 13770-13773.	13.7	114
15	High throughput study of phase inversion parameters for polyimide-based SRNF membranes. <i>Journal of Membrane Science</i> , 2009, 330, 307-318.	8.2	145
16	Compositional Optimization of Polyimide-Based SEPI Membranes Using a Genetic Algorithm and High-Throughput Techniques. <i>ACS Combinatorial Science</i> , 2009, 11, 243-251.	3.3	22
17	Solvent resistant nanofiltration: separating on a molecular level. <i>Chemical Society Reviews</i> , 2008, 37, 365-405.	38.1	965
18	Solidification of Emulsified Polymer Solutions via Phase Inversion (SEPI): A Generic Way To Prepare Polymers with Controlled Porosity. <i>Chemistry of Materials</i> , 2008, 20, 3457-3465.	6.7	25

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19	Directed Development of High-Performance Membranes via High-Throughput and Combinatorial Strategies. <i>ACS Combinatorial Science</i> , 2006, 8, 168-173.	3.3	49
20	A novel method to prepare porous membranes/polymers with easy control over porosity and increased compaction resistance. <i>Desalination</i> , 2006, 199, 34-36.	8.2	0
21	High throughput membrane testing and combinatorial techniques: powerful new instruments for membrane optimisation. <i>Desalination</i> , 2006, 199, 395-397.	8.2	9
22	The use of nanofiltration and ultrafiltration as tools in bridging the gap between heterogeneous and homogeneous catalysis. <i>Desalination</i> , 2006, 200, 411-413.	8.2	1
23	Physico-chemical interpretation of the SRNF transport mechanism for solutes through dense silicone membranes. <i>Journal of Membrane Science</i> , 2006, 274, 173-182.	8.2	69
24	Plasma-treated PDMS-membranes in solvent resistant nanofiltration: Characterization and study of transport mechanism. <i>Journal of Membrane Science</i> , 2006, 275, 212-219.	8.2	75
25	Optimisation of a lab-scale method for preparation of composite membranes with a filled dense top-layer. <i>Journal of Membrane Science</i> , 2006, 281, 741-746.	8.2	62
26	Solvent-resistant nanofiltration with filled polydimethylsiloxane (PDMS) membranes. <i>Journal of Membrane Science</i> , 2006, 278, 199-204.	8.2	96
27	The use of solvent resistant nanofiltration in the recycling of the Co-Jacobsen catalyst in the hydrolytic kinetic resolution (HKR) of epoxides. <i>Journal of Membrane Science</i> , 2006, 280, 245-252.	8.2	31
28	High throughput screening for rapid development of membranes and membrane processes. <i>Journal of Membrane Science</i> , 2005, 250, 305-310.	8.2	95
29	Porphyrin-Functionalized Dendrimers: Synthesis and Application as Recyclable Photocatalysts in a Nanofiltration Membrane Reactor. <i>Chemistry - A European Journal</i> , 2005, 11, 6754-6762.	3.3	67
30	Catalytic oxidation of 1,2-diols to $\alpha$ -hydroxy-carboxylates with stabilized gold nanocolloids combined with a membrane-based catalyst separation. <i>Catalysis Letters</i> , 2005, 102, 57-61.	2.6	71
31	Physico-chemical interpretation of the SRNF transport mechanism for solvents through dense silicone membranes. <i>Journal of Membrane Science</i> , 2004, 231, 99-108.	8.2	113