

# Rico Gutzler

## List of Publications by Year in descending order

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39  
papers

2,775  
citations

201674

27  
h-index

302126

39  
g-index

39  
all docs

39  
docs citations

39  
times ranked

3905  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface mediated synthesis of 2D covalent organic frameworks: 1,3,5-tris(4-bromophenyl)benzene on graphite(001), Cu(111), and Ag(110). <i>Chemical Communications</i> , 2009, , 4456.	4.1	300
2	Driving the Oxygen Evolution Reaction by Nonlinear Cooperativity in Bimetallic Coordination Catalysts. <i>Journal of the American Chemical Society</i> , 2016, 138, 3623-3626.	13.7	235
3	Reversible Phase Transitions in Self-Assembled Monolayers at the Liquid-Solid Interface: Temperature-Controlled Opening and Closing of Nanopores. <i>Journal of the American Chemical Society</i> , 2010, 132, 5084-5090.	13.7	223
4	π-Electron Conjugation in Two Dimensions. <i>Journal of the American Chemical Society</i> , 2013, 135, 16585-16594.	13.7	214
5	Material- and Orientation-Dependent Reactivity for Heterogeneously Catalyzed Carbon-Bromine Bond Homolysis. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12604-12609.	3.1	134
6	Synthesis and electronic structure of a two dimensional π-conjugated polythiophene. <i>Chemical Science</i> , 2013, 4, 3263.	7.4	130
7	Kinetics and thermodynamics in surface-confined molecular self-assembly. <i>Chemical Science</i> , 2011, 2, 2290.	7.4	122
8	Halogen bonds in 2D supramolecular self-assembly of organic semiconductors. <i>Nanoscale</i> , 2012, 4, 5965.	5.6	120
9	Ullmann-type coupling of brominated tetrathienoanthracene on copper and silver. <i>Nanoscale</i> , 2014, 6, 2660-2668.	5.6	106
10	Tuning the stacking behaviour of a 2D covalent organic framework through non-covalent interactions. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1354-1361.	5.9	95
11	Halogen bonds as stabilizing interactions in a chiral self-assembled molecular monolayer. <i>Chemical Communications</i> , 2011, 47, 9453.	4.1	91
12	The Structure of the Cobalt Oxide/Au Catalyst Interface in Electrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11893-11897.	13.8	90
13	Mimicking Enzymatic Active Sites on Surfaces for Energy Conversion Chemistry. <i>Accounts of Chemical Research</i> , 2015, 48, 2132-2139.	15.6	87
14	Extended Two-Dimensional Metal-Organic Frameworks Based on Thiolate-Copper Coordination Bonds. <i>Journal of the American Chemical Society</i> , 2011, 133, 7909-7915.	13.7	73
15	Aromatic interaction vs. hydrogen bonding in self-assembly at the liquid-solid interface. <i>Chemical Communications</i> , 2009, , 680-682.	4.1	66
16	Band-structure engineering in conjugated 2D polymers. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 29092-29100.	2.8	64
17	Two-dimensional honeycomb network through sequence-controlled self-assembly of oligopeptides. <i>Nature Communications</i> , 2016, 7, 10335.	12.8	59
18	Influence of Solvophobic Effects on Self-Assembly of Trimesic Acid at the Liquid-Solid Interface. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3531-3536.	3.1	52

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19	Covalent coupling via dehalogenation on Ni(111) supported boron nitride and graphene. <i>Chemical Communications</i> , 2015, 51, 2440-2443.	4.1	52
20	Molecular Orbital Gates for Plasmon Excitation. <i>Nano Letters</i> , 2013, 13, 2846-2850.	9.1	46
21	Light-matter interaction at atomic scales. <i>Nature Reviews Physics</i> , 2021, 3, 441-453.	26.6	46
22	Electric-Field-Driven Direct Desulfurization. <i>ACS Nano</i> , 2017, 11, 4703-4709.	14.6	43
23	Optical gap in herringbone and $\pi$ -stacked crystals of [1]benzothieno[3,2-b]benzothiophene and its brominated derivative. <i>CrystEngComm</i> , 2014, 16, 7389-7392.	2.6	37
24	Interplay of Chemical and Electronic Structure on the Single-Molecule Level in 2D Polymerization. <i>ACS Nano</i> , 2016, 10, 11511-11518.	14.6	35
25	Two-Dimensional Folding of Polypeptides into Molecular Nanostructures at Surfaces. <i>ACS Nano</i> , 2017, 11, 2420-2427.	14.6	35
26	Ventilation Time of the Middle Ear in Otitis Media With Effusion (OME) After CO <sub>2</sub> Laser Myringotomy. <i>Laryngoscope</i> , 2002, 112, 661-668.	2.0	28
27	Stability of metallo-porphyrin networks under oxygen reduction and evolution conditions in alkaline media. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2587-2594.	2.8	28
28	Combination of a Knudsen effusion cell with a quartz crystal microbalance: <i>In situ</i> measurement of molecular evaporation rates with a fully functional deposition source. <i>Review of Scientific Instruments</i> , 2010, 81, 015108.	1.3	27
29	Soft-landing electrospray ion beam deposition of sensitive oligoynes on surfaces in vacuum. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 228-234.	1.5	25
30	On-surface transmetalation of metalloporphyrins. <i>Nanoscale</i> , 2018, 10, 21116-21122.	5.6	17
31	The Structure of the Cobalt Oxide/Au Catalyst Interface in Electrochemical Water Splitting. <i>Angewandte Chemie</i> , 2018, 130, 12069-12073.	2.0	16
32	Enhancing Hydrogen Evolution Activity of Au(111) in Alkaline Media through Molecular Engineering of a 2D Polymer. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8411-8415.	13.8	15
33	Self-Assembly of a Halogenated Molecule on Oxide-Passivated Cu(110). <i>Chemistry - an Asian Journal</i> , 2013, 8, 1813-1817.	3.3	14
34	Thermodynamics of the Segregation of a Kinetically Trapped Two-Dimensional Amorphous Metal-Organic Network. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4403-4409.	3.1	12
35	Two-dimensional Silicon-Carbon Compounds: Structure Prediction and Band Structures. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017, 643, 1368-1373.	1.2	12
36	Ultrashort Pulse Excited Tip-Enhanced Raman Spectroscopy in Molecules. <i>Nano Letters</i> , 2022, 22, 5100-5106.	9.1	9

#	ARTICLE	IF	CITATIONS
37	Polymorphism and metal-induced structural transformation in 5,5'-bis(4-pyridyl)(2,2'-bispyrimidine) adlayers on Au(111). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15960-15969.	2.8	8
38	Short-Range Structural Correlations in Amorphous 2D Polymers. <i>ChemPhysChem</i> , 2019, 20, 2340-2347.	2.1	8
39	Enhancing Hydrogen Evolution Activity of Au(111) in Alkaline Media through Molecular Engineering of a 2D Polymer. <i>Angewandte Chemie</i> , 2020, 132, 8489-8493.	2.0	1