

# Felix Benz

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3300395/publications.pdf>

Version: 2024-02-01

33  
papers

3,569  
citations

304743

22  
h-index

395702

33  
g-index

33  
all docs

33  
docs citations

33  
times ranked

4150  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulsed Molecular Optomechanics in Plasmonic Nanocavities: From Nonlinear Vibrational Instabilities to Bond-Breaking. <i>Physical Review X</i> , 2018, 8, .	8.9	47
2	Suppressed Quenching and Strong-Coupling of Purcell-Enhanced Single-Molecule Emission in Plasmonic Nanocavities. <i>ACS Photonics</i> , 2018, 5, 186-191.	6.6	137
3	Mapping Nanoscale Hotspots with Single-Molecule Emitters Assembled into Plasmonic Nanocavities Using DNA Origami. <i>Nano Letters</i> , 2018, 18, 405-411.	9.1	126
4	How Ultranarrow Gap Symmetries Control Plasmonic Nanocavity Modes: From Cubes to Spheres in the Nanoparticle-on-Mirror. <i>ACS Photonics</i> , 2017, 4, 469-475.	6.6	115
5	Linking classical and molecular optomechanics descriptions of SERS. <i>Faraday Discussions</i> , 2017, 205, 31-65.	3.2	47
6	Revealing Nanostructures through Plasmon Polarimetry. <i>ACS Nano</i> , 2017, 11, 850-855.	14.6	33
7	Plasmonic tunnel junctions for single-molecule redox chemistry. <i>Nature Communications</i> , 2017, 8, 994.	12.8	116
8	Mapping SERS in CB:Au Plasmonic Nanoaggregates. <i>ACS Photonics</i> , 2017, 4, 2681-2686.	6.6	23
9	Interrogating Nanojunctions Using Ultraconfined Acoustoplasmonic Coupling. <i>Physical Review Letters</i> , 2017, 119, 023901.	7.8	16
10	Smart supramolecular sensing with cucurbit[ <i>n</i> ]urils: probing hydrogen bonding with SERS. <i>Faraday Discussions</i> , 2017, 205, 505-515.	3.2	20
11	Blocking Hot Electron Emission by SiO <sub>2</sub> Coating Plasmonic Nanostructures. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18795-18799.	3.1	14
12	SERS of Individual Nanoparticles on a Mirror: Size Does Matter, but so Does Shape. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2264-2269.	4.6	163
13	Fast Dynamic Color Switching in Temperature-Responsive Plasmonic Films. <i>Advanced Optical Materials</i> , 2016, 4, 877-882.	7.3	56
14	Single-molecule optomechanics in "picocavities". <i>Science</i> , 2016, 354, 726-729.	12.6	607
15	Single-molecule strong coupling at room temperature in plasmonic nanocavities. <i>Nature</i> , 2016, 535, 127-130.	27.8	1,391
16	One-step fabrication of hollow-channel gold nanoflowers with excellent catalytic performance and large single-particle SERS activity. <i>Nanoscale</i> , 2016, 8, 14932-14942.	5.6	38
17	Observing Single Molecules Complexing with Cucurbit[7]uril through Nanogap Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 704-710.	4.6	73
18	Anomalous Spectral Shift of Near- and Far-Field Plasmonic Resonances in Nanogaps. <i>ACS Photonics</i> , 2016, 3, 471-477.	6.6	53

#	ARTICLE	IF	CITATIONS
19	Generalized circuit model for coupled plasmonic systems. <i>Optics Express</i> , 2015, 23, 33255.	3.4	62
20	Applications of plasmonics: general discussion. <i>Faraday Discussions</i> , 2015, 178, 435-466.	3.2	17
21	Plasmonic and new plasmonic materials: general discussion. <i>Faraday Discussions</i> , 2015, 178, 123-149.	3.2	16
22	Unfolding the contents of sub-nm plasmonic gaps using normalising plasmon resonance spectroscopy. <i>Faraday Discussions</i> , 2015, 178, 185-193.	3.2	52
23	Nanooptics of Molecular-Shunted Plasmonic Nanojunctions. <i>Nano Letters</i> , 2015, 15, 669-674.	9.1	162
24	Self-Aligned Colloidal Lithography for Controllable and Tuneable Plasmonic Nanogaps. <i>Small</i> , 2015, 11, 2139-2143.	10.0	30
25	Concentration quenching of the luminescence from trivalent thulium, terbium, and erbium ions embedded in an AlN matrix. <i>Journal of Luminescence</i> , 2014, 145, 855-858.	3.1	11
26	Watching individual molecules flex within lipid membranes using SERS. <i>Scientific Reports</i> , 2014, 4, 5940.	3.3	48
27	Concentration quenching of the green photoluminescence from terbium ions embedded in AlN and SiC matrices. <i>Journal of Luminescence</i> , 2013, 137, 73-76.	3.1	16
28	How to describe concentration quenching in rare earth doped semiconductors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 109-112.	0.8	8
29	Concentration quenching and thermal activation of the luminescence from terbium-doped SiC:H and AlN thin films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 68-71.	0.8	8
30	Tuning the emission colour by manipulating terbium-terbium interactions: Terbium doped aluminium nitride as an example system. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	23
31	Towards the structure of rare earth luminescence centres – terbium doped aluminium nitride as an example system. <i>Journal of Physics: Conference Series</i> , 2013, 471, 012032.	0.4	5
32	Rare earth luminescence: A way to overcome concentration quenching. <i>AIP Advances</i> , 2012, 2, 042115.	1.3	24
33	Luminescence intensity and dopant concentration in AlN:Tb. <i>Journal of Luminescence</i> , 2012, 132, 1493-1496.	3.1	12