

# Tobias A F Knig

## List of Publications by Citations

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46  
papers

1,567  
citations

22  
h-index

39  
g-index

51  
ext. papers

1,988  
ext. citations

9.4  
avg, IF

4.91  
L-index

#	Paper	IF	Citations
46	Electrically tunable plasmonic behavior of nanocube-polymer nanomaterials induced by a redox-active electrochromic polymer. <i>ACS Nano</i> , <b>2014</b> , 8, 6182-92	16.7	241
45	Plasmonic nanomeshes: their ambivalent role as transparent electrodes in organic solar cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 42530	4.9	140
44	Strongly coupled plasmonic modes on macroscopic areas via template-assisted colloidal self-assembly. <i>Nano Letters</i> , <b>2014</b> , 14, 6863-71	11.5	123
43	Colloidal self-assembly concepts for light management in photovoltaics. <i>Materials Today</i> , <b>2015</b> , 18, 185-205	20.5	105
42	Colloidal Self-Assembly Concepts for Plasmonic Metasurfaces. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1800864	16.4	72
41	Plasmonic library based on substrate-supported gradiental plasmonic arrays. <i>ACS Nano</i> , <b>2014</b> , 8, 9410-216.7	216.7	70
40	Hybridized Guided-Mode Resonances via Colloidal Plasmonic Self-Assembled Grating. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 13752-13760	9.5	62
39	Gold-Based Cubic Nanoboxes with Well-Defined Openings at the Corners and Ultrathin Walls Less Than Two Nanometers Thick. <i>ACS Nano</i> , <b>2016</b> , 10, 8019-25	16.7	57
38	Nanorattles with tailored electric field enhancement. <i>Nanoscale</i> , <b>2017</b> , 9, 9376-9385	7.7	56
37	Optically anisotropic substrates via wrinkle-assisted convective assembly of gold nanorods on macroscopic areas. <i>Faraday Discussions</i> , <b>2015</b> , 181, 243-60	3.6	53
36	DNA-Assembled Plasmonic Waveguides for Nanoscale Light Propagation to a Fluorescent Nanodiamond. <i>Nano Letters</i> , <b>2018</b> , 18, 7323-7329	11.5	46
35	Silver-Overgrowth-Induced Changes in Intrinsic Optical Properties of Gold Nanorods: From Noninvasive Monitoring of Growth Kinetics to Tailoring Internal Mirror Charges. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 9513-9523	3.8	45
34	Reversible Tuning of Visible Wavelength Surface Lattice Resonances in Self-Assembled Hybrid Monolayers. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600971	8.1	44
33	Template-assisted colloidal self-assembly of macroscopic magnetic metasurfaces. <i>Faraday Discussions</i> , <b>2016</b> , 191, 159-176	3.6	44
32	Macroscopic Strain-Induced Transition from Quasi-infinite Gold Nanoparticle Chains to Defined Plasmonic Oligomers. <i>ACS Nano</i> , <b>2017</b> , 11, 8871-8880	16.7	39
31	Aqueous Gold Overgrowth of Silver Nanoparticles: Merging the Plasmonic Properties of Silver with the Functionality of Gold. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 15866-15870	16.4	34
30	Mechanotunable Surface Lattice Resonances in the Visible Optical Range by Soft Lithography Templates and Directed Self-Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 28189-28196	9.5	33

29	Highly Oriented Nanowire Thin Films with Anisotropic Optical Properties Driven by the Simultaneous Influence of Surface Templating and Shear Forces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 3046-3057	9.5	26
28	All-Optical Reversible Azo-Based Wrinkling Patterns with High Aspect Ratio and Polarization-Independent Orientation for Light-Responsive Soft Photonics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 25595-25604	9.5	24
27	Mechanotunable Plasmonic Properties of Colloidal Assemblies. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 1901678	4.6	24
26	Magnetic and Electric Resonances in Particle-to-Film-Coupled Functional Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 3133-3141	9.5	23
25	Mechano-tunable chiral metasurfaces via colloidal assembly. <i>Nature Materials</i> , <b>2021</b> , 20, 1024-1028	27	23
24	Direct Observation of Plasmon Band Formation and Delocalization in Quasi-Infinite Nanoparticle Chains. <i>Nano Letters</i> , <b>2019</b> , 19, 3854-3862	11.5	19
23	NIR-Active Plasmonic Gold Nanocapsules Synthesized Using Thermally Induced Seed Twinning for Surface-Enhanced Raman Scattering Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 39380-39390	9.5	19
22	Tackling the Scalability Challenge in Plasmonics by Wrinkle-Assisted Colloidal Self-Assembly. <i>Langmuir</i> , <b>2019</b> , 35, 8629-8645	4	17
21	Broad-Range Electrically Tunable Plasmonic Resonances of a Multilayer Coaxial Nanohole Array with an Electroactive Polymer Wrapper. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 35244-35252	9.5	17
20	Silver nanocube aggregation gradient materials in search for total internal reflection with high phase sensitivity. <i>Nanoscale</i> , <b>2015</b> , 7, 5230-9	7.7	11
19	Nanoimprint Lithography Facilitated Plasmonic-Photonic Coupling for Enhanced Photoconductivity and Photocatalysis. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2105054	15.6	10
18	Complex Metal Nanostructures with Programmable Shapes from Simple DNA Building Blocks. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100381	24	9
17	Casting of Gold Nanoparticles with High Aspect Ratios inside DNA Molds. <i>Small</i> , <b>2020</b> , 16, e2003662	11	8
16	Plasmonic Charge Transfers in Large-Scale Metallic and Colloidal Photonic Crystal Slabs. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2011099	15.6	8
15	Tunable Circular Dichroism by Photoluminescent Moiré Gratings. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001280	8.1	8
14	Single Particle Spectroscopy of Radiative Processes in Colloid-to-Film-Coupled Nanoantennas. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2018</b> , 232, 1593-1606	3.1	6
13	Exploring Plasmonic Resonances Toward Large-Scale Flexible Optical Sensors with Deformation Stability. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101959	15.6	6
12	Active Plasmonic Colloid-to-Film-Coupled Cavities for Tailored Light-Matter Interactions. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 6745-6752	3.8	6

11	Silver Particles with Rhombicuboctahedral Shape and Effective Isotropic Interactions with Light. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2822-2827	9.6	5
10	Plasmonics of Au/Polymer Core/Shell Nanocomposites for Thermoresponsive Hybrid Metasurfaces. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 1674-1682	5.6	5
9	Remarkable Mechanochromism in Blends of a $\pi$ -Conjugated Polymer P3TEOT: The Role of Conformational Transitions and Aggregation. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1901410	8.1	5
8	Anisotropic nanoparticles: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 191, 229-254	3.6	5
7	Exploiting Combinatorics to Investigate Plasmonic Properties in Heterogeneous Ag <sub>2</sub> Au Nanosphere Chain Assemblies. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001983	8.1	5
6	Plasmonic Properties of Colloidal Assemblies. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001869	8.1	4
5	Wichtige Goldüberwachung von Silbernanopartikeln: Vereinigung der plasmonischen Eigenschaften von Silber mit der Funktionalität von Gold. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 16082-16086	3.6	3
4	Self-Organization of Gold Nanoparticle Assemblies with 3D Spatial Order and Their External Stimuli Responsiveness. <i>Macromolecular Rapid Communications</i> , <b>2016</b> , 37, 215-20	4.8	3
3	High Yield Synthesis of Water-Processable Donor:Acceptor Janus Nanoparticles with Tuned Internal Morphology and Highly Efficient Charge Separation/Transfer. <i>Advanced Optical Materials</i> , <b>2022</b> , 10, 2101922	8.1	1
2	Development of a Teaching Platform about Plasmonics Based on the Color Perception of Colloidal Gold. <i>Journal of Chemical Education</i> , <b>2021</b> , 98, 2566-2573	2.4	0
1	Surface Plasmon Modes in Long Chains of Au Nanoparticles. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 1748-1749	8.5	0