

Tobias A F Knig

List of Publications by Year in Descending Order

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Version: 2024-04-27

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

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	Mechano-tunable chiral metasurfaces via colloidal assembly. <i>Nature Materials</i> , 2021 , 20, 1024-1028	27	23
45	Exploring Plasmonic Resonances Toward Large-Scale Flexible Optical Sensors with Deformation Stability. <i>Advanced Functional Materials</i> , 2021 , 31, 2101959	15.6	6
44	Complex Metal Nanostructures with Programmable Shapes from Simple DNA Building Blocks. <i>Advanced Materials</i> , 2021 , 33, e2100381	24	9
43	Nanoimprint Lithography Facilitated Plasmonic-Photonic Coupling for Enhanced Photoconductivity and Photocatalysis. <i>Advanced Functional Materials</i> , 2021 , 31, 2105054	15.6	10
42	Exploiting Combinatorics to Investigate Plasmonic Properties in Heterogeneous Ag/Au Nanosphere Chain Assemblies. <i>Advanced Optical Materials</i> , 2021 , 9, 2001983	8.1	5
41	Plasmonic Charge Transfers in Large-Scale Metallic and Colloidal Photonic Crystal Slabs. <i>Advanced Functional Materials</i> , 2021 , 31, 2011099	15.6	8
40	Plasmonic Properties of Colloidal Assemblies. <i>Advanced Optical Materials</i> , 2021 , 9, 2001869	8.1	4
39	Development of a Teaching Platform about Plasmonics Based on the Color Perception of Colloidal Gold. <i>Journal of Chemical Education</i> , 2021 , 98, 2566-2573	2.4	0
38	Tunable Circular Dichroism by Photoluminescent Moiré Gratings. <i>Advanced Optical Materials</i> , 2021 , 9, 2001280	8.1	8
37	Plasmonics of Au/Polymer Core/Shell Nanocomposites for Thermoresponsive Hybrid Metasurfaces. <i>ACS Applied Nano Materials</i> , 2020 , 3, 1674-1682	5.6	5
36	Mechanotunable Plasmonic Properties of Colloidal Assemblies. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901678	4.6	24
35	Remarkable Mechanochromism in Blends of a Conjugated Polymer P3TEOT: The Role of Conformational Transitions and Aggregation. <i>Advanced Optical Materials</i> , 2020 , 8, 1901410	8.1	5
34	Casting of Gold Nanoparticles with High Aspect Ratios inside DNA Molds. <i>Small</i> , 2020 , 16, e2003662	11	8
33	Direct Observation of Plasmon Band Formation and Delocalization in Quasi-Infinite Nanoparticle Chains. <i>Nano Letters</i> , 2019 , 19, 3854-3862	11.5	19
32	All-Optical Reversible Azo-Based Wrinkling Patterns with High Aspect Ratio and Polarization-Independent Orientation for Light-Responsive Soft Photonics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25595-25604	9.5	24
31	Tackling the Scalability Challenge in Plasmonics by Wrinkle-Assisted Colloidal Self-Assembly. <i>Langmuir</i> , 2019 , 35, 8629-8645	4	17
30	Silver Particles with Rhombicuboctahedral Shape and Effective Isotropic Interactions with Light. <i>Chemistry of Materials</i> , 2019 , 31, 2822-2827	9.6	5

29	Hybridized Guided-Mode Resonances via Colloidal Plasmonic Self-Assembled Grating. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13752-13760	9.5	62
28	Mechanotunable Surface Lattice Resonances in the Visible Optical Range by Soft Lithography Templates and Directed Self-Assembly. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28189-28196	9.5	33
27	Active Plasmonic Colloid-to-Film-Coupled Cavities for Tailored Light-Matter Interactions. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6745-6752	3.8	6
26	Colloidal Self-Assembly Concepts for Plasmonic Metasurfaces. <i>Advanced Optical Materials</i> , 2019 , 7, 1800864	8.4	72
25	Single Particle Spectroscopy of Radiative Processes in Colloid-to-Film-Coupled Nanoantennas. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 1593-1606	3.1	6
24	Highly Oriented Nanowire Thin Films with Anisotropic Optical Properties Driven by the Simultaneous Influence of Surface Templating and Shear Forces. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3046-3057	9.5	26
23	Magnetic and Electric Resonances in Particle-to-Film-Coupled Functional Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3133-3141	9.5	23
22	Surface Plasmon Modes in Long Chains of Au Nanoparticles. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1748-1749	3.7	1749
21	NIR-Active Plasmonic Gold Nanocapsules Synthesized Using Thermally Induced Seed Twinning for Surface-Enhanced Raman Scattering Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39380-39390	8.5	19
20	DNA-Assembled Plasmonic Waveguides for Nanoscale Light Propagation to a Fluorescent Nanodiamond. <i>Nano Letters</i> , 2018 , 18, 7323-7329	11.5	46
19	Plasmonic nanomeshes: their ambivalent role as transparent electrodes in organic solar cells. <i>Scientific Reports</i> , 2017 , 7, 42530	4.9	140
18	Nanorattles with tailored electric field enhancement. <i>Nanoscale</i> , 2017 , 9, 9376-9385	7.7	56
17	Reversible Tuning of Visible Wavelength Surface Lattice Resonances in Self-Assembled Hybrid Monolayers. <i>Advanced Optical Materials</i> , 2017 , 5, 1600971	8.1	44
16	Wässrige Goldüberwachsung von Silbernanopartikeln: Vereinigung der plasmonischen Eigenschaften von Silber mit der Funktionalität von Gold. <i>Angewandte Chemie</i> , 2017 , 129, 16082-16086	3.6	3
15	Aqueous Gold Overgrowth of Silver Nanoparticles: Merging the Plasmonic Properties of Silver with the Functionality of Gold. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15866-15870	16.4	34
14	Broad-Range Electrically Tunable Plasmonic Resonances of a Multilayer Coaxial Nanohole Array with an Electroactive Polymer Wrapper. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35244-35252	9.5	17
13	Macroscopic Strain-Induced Transition from Quasi-infinite Gold Nanoparticle Chains to Defined Plasmonic Oligomers. <i>ACS Nano</i> , 2017 , 11, 8871-8880	16.7	39
12	Gold-Based Cubic Nanoboxes with Well-Defined Openings at the Corners and Ultrathin Walls Less Than Two Nanometers Thick. <i>ACS Nano</i> , 2016 , 10, 8019-25	16.7	57

11	Template-assisted colloidal self-assembly of macroscopic magnetic metasurfaces. <i>Faraday Discussions</i> , 2016 , 191, 159-176	3.6	44
10	Self-Organization of Gold Nanoparticle Assemblies with 3D Spatial Order and Their External Stimuli Responsiveness. <i>Macromolecular Rapid Communications</i> , 2016 , 37, 215-20	4.8	3
9	Anisotropic nanoparticles: general discussion. <i>Faraday Discussions</i> , 2016 , 191, 229-254	3.6	5
8	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> , 2015 , 119, 9513-9523	3.8	45
7	Optically anisotropic substrates via wrinkle-assisted convective assembly of gold nanorods on macroscopic areas. <i>Faraday Discussions</i> , 2015 , 181, 243-60	3.6	53
6	Colloidal self-assembly concepts for light management in photovoltaics. <i>Materials Today</i> , 2015 , 18, 185-205	3.5	105
5	Silver nanocube aggregation gradient materials in search for total internal reflection with high phase sensitivity. <i>Nanoscale</i> , 2015 , 7, 5230-9	7.7	11
4	Strongly coupled plasmonic modes on macroscopic areas via template-assisted colloidal self-assembly. <i>Nano Letters</i> , 2014 , 14, 6863-71	11.5	123
3	Plasmonic library based on substrate-supported gradiental plasmonic arrays. <i>ACS Nano</i> , 2014 , 8, 9410-216.7	16.7	70
2	Electrically tunable plasmonic behavior of nanocube-polymer nanomaterials induced by a redox-active electrochromic polymer. <i>ACS Nano</i> , 2014 , 8, 6182-92	16.7	241
1	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> , 2019 , 11, 190221	8.1	1