Mark W Knight

List of Publications by Citations

41 papers	8,067 citations	27 h-index	45 g-index
45 ext. papers	9,062 ext. citations	10.3 avg, IF	6.09 L-index

#	Paper	IF	Citations
41	Photodetection with active optical antennas. *Science*, **2011**, 332, 702-4	33.3	1465
40	Photovoltaic materials: Present efficiencies and future challenges. *Science*, **2016**, 352, aad4424	33.3	1192
39	Aluminum for plasmonics. *ACS Nano*, **2014**, 8, 834-40	16.7	827
38	Aluminum plasmonic nanoantennas. *Nano Letters*, **2012**, 12, 6000-4	11.5	430
37	Narrowband photodetection in the near-infrared with a plasmon-induced hot electron device. *Nature Communications*, **2013**, 4, 1643	17.4	425
36	Substrates matter: influence of an adjacent dielectric on an individual plasmonic nanoparticle. *Nano Letters*, **2009**, 9, 2188-92	11.5	372
35	Light-induced release of DNA from gold nanoparticles: nanoshells and nanorods. *Journal of the American Chemical Society*, **2011**, 133, 12247-55	16.4	299
34	Au nanomatryoshkas as efficient near-infrared photothermal transducers for cancer treatment: benchmarking against nanoshells. *ACS Nano*, **2014**, 8, 6372-81	16.7	283
33	Photothermal Efficiencies of Nanoshells and Nanorods for Clinical Therapeutic Applications. *Journal of Physical Chemistry C*, **2009**, 113, 12090-12094	3.8	268
32	Embedding plasmonic nanostructure diodes enhances hot electron emission. *Nano Letters*, **2013**, 13, 1687-92	11.5	244
31	Vivid, full-color aluminum plasmonic pixels. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 14348-53	11.5	243
30	Nanoparticle-mediated coupling of light into a nanowire. *Nano Letters*, **2007**, 7, 2346-50	11.5	191
29	Designing and deconstructing the Fano lineshape in plasmonic nanoclusters. *Nano Letters*, **2012**, 12, 1058-62	11.5	187
28	Fluorescence enhancement of molecules inside a gold nanomatryoshka. *Nano Letters*, **2014**, 14, 2926-33	11.5	163
27	Nanoshells to nanoeggs to nanocups: optical properties of reduced symmetry core–shell nanoparticles beyond the quasistatic limit. *New Journal of Physics*, **2008**, 10, 105006	2.9	154
26	Three-dimensional plasmonic nanoclusters. *Nano Letters*, **2013**, 13, 4399-403	11.5	148
25	Aluminum nanocrystals. *Nano Letters*, **2015**, 15, 2751-5	11.5	144

24	The surprising in vivo instability of near-IR-absorbing hollow Au-Ag nanoshells. *ACS Nano*, **2014**, 8, 3222-31	16.7	131
23	Light-induced release of DNA from plasmon-resonant nanoparticles: Towards light-controlled gene therapy. *Chemical Physics Letters*, **2009**, 482, 171-179	2.5	121
22	Thermoplasmonics: quantifying plasmonic heating in single nanowires. *Nano Letters*, **2014**, 14, 499-503	11.5	100
21	Reshaping the plasmonic properties of an individual nanoparticle. *Nano Letters*, **2009**, 9, 4326-32	11.5	94
20	Gallium plasmonics: deep subwavelength spectroscopic imaging of single and interacting gallium nanoparticles. *ACS Nano*, **2015**, 9, 2049-60	16.7	93
19	Dark plasmons in hot spot generation and polarization in interelectrode nanoscale junctions. *Nano Letters*, **2013**, 13, 1359-64	11.5	81
18	Influence of excitation and collection geometry on the dark field spectra of individual plasmonic nanostructures. *Optics Express*, **2010**, 18, 2579-87	3.3	59
17	Topological Magnetic-Spin Textures in Two-Dimensional van der Waals CrGeTe. *Nano Letters*, **2019**, 19, 7859-7865	11.5	56
16	Visible Light, Wide-Angle Graded Metasurface for Back Reflection. *ACS Photonics*, **2017**, 4, 228-235	6.3	54
15	Broadband Electrically Tunable Dielectric Resonators Using Metal□nsulator Transitions. *ACS Photonics*, **2018**, 5, 4056-4060	6.3	33
14	Orienting nanoantennas in three dimensions to control light scattering across a dielectric interface. *Nano Letters*, **2013**, 13, 5997-6001	11.5	26
13	Optoelectronic Enhancement of Ultrathin CuIn1□GaxSe2 Solar Cells by Nanophotonic Contacts. *Advanced Optical Materials*, **2017**, 5, 1600637	8.1	25
12	Elucidating the Behavior of Nanophotonic Structures through Explainable Machine Learning Algorithms. *ACS Photonics*, **2020**, 7, 2309-2318	6.3	24
11	Detailed comparison of LIGO and Virgo inspiral pipelines in preparation for a joint search. *Classical and Quantum Gravity*, **2008**, 25, 045001	3.3	21
10	Nanoscale spatial limitations of large-area substrate conformal imprint lithography. *Nanotechnology*, **2019**, 30, 345301	3.4	18
9	Optically-driven collapse of a plasmonic nanogap self-monitored by optical frequency mixing. *Nano Letters*, **2010**, 10, 1522-8	11.5	14
8	A first comparison of search methods for gravitational wave bursts using LIGO and Virgo simulated data. *Classical and Quantum Gravity*, **2005**, 22, S1293-S1301	3.3	14
7	Multiplexed supercell metasurface design and optimization with tandem residual networks. *Nanophotonics*, **2021**, 10, 1133-1143	6.3	14

6	Soft imprinted Ag nanowire hybrid electrodes on silicon heterojunction solar cells. *Nano Energy*, **2016**, 30, 398-406	17.1	13
5	A comparison of methods for gravitational wave burst searches from LIGO and Virgo. *Classical and Quantum Gravity*, **2008**, 25, 045002	3.3	11
4	Global Inverse Design across Multiple Photonic Structure Classes Using Generative Deep Learning. *Advanced Optical Materials*, **2021**, 9, 2100548	8.1	9
3	Thermally Reconfigurable Meta-Optics. *IEEE Photonics Journal*, **2019**, 11, 1-16	1.8	8
2	A first comparison between LIGO and Virgo inspiral search pipelines. *Classical and Quantum Gravity*, **2005**, 22, S1149-S1158	3.3	6
1	Design, fabrication, and test of a peristaltic micropump. *Microsystem Technologies*, **2004**, 10, 426-431	1.7	4