Xiaoyang Duan

List of Publications by Year
in descending order

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29 papers	3,448 citations	279487 23 h-index	476904 29 g-index
29 all docs	29 docs citations	29 times ranked	3994 citing authors

#	Article	IF	Citations
1	Chiral plasmonics. Science Advances, 2017, 3, e1602735.	4.7	583
2	Dynamic plasmonic colour display. Nature Communications, 2017, 8, 14606.	5.8	429
3	A light-driven three-dimensional plasmonic nanosystem that translates molecular motion into reversible chiroptical function. Nature Communications, 2016, 7, 10591.	5.8	259
4	A plasmonic nanorod that walks on DNA origami. Nature Communications, 2015, 6, 8102.	5.8	257
5	Dynamically tunable plasmonically induced transparency in periodically patterned graphene nanostrips. Applied Physics Letters, 2013, 103, 203112.	1.5	249
6	Dynamic Color Displays Using Stepwise Cavity Resonators. Nano Letters, 2017, 17, 5555-5560.	4.5	181
7	Plasmonic Toroidal Metamolecules Assembled by DNA Origami. Journal of the American Chemical Society, 2016, 138, 5495-5498.	6.6	165
8	DNA-Nanotechnology-Enabled Chiral Plasmonics: From Static to Dynamic. Accounts of Chemical Research, 2017, 50, 2906-2914.	7.6	141
9	Polarization insensitive and omnidirectional broadband near perfect planar metamaterial absorber in the near infrared regime. Applied Physics Letters, 2011, 99, .	1.5	137
10	Quantizing single-molecule surface-enhanced Raman scattering with DNA origami metamolecules. Science Advances, 2019, 5, eaau4506.	4.7	118
11	Hydrogen-Regulated Chiral Nanoplasmonics. Nano Letters, 2016, 16, 1462-1466.	4.5	94
12	Dynamic plasmonic color generation enabled by functional materials. Science Advances, 2020, 6, .	4.7	94
13	Scanning Plasmonic Color Display. ACS Nano, 2018, 12, 8817-8823.	7.3	92
14	Optically Resolving the Dynamic Walking of a Plasmonic Walker Couple. Nano Letters, 2015, 15, 8392-8396.	4.5	86
15	Dynamic Plasmonic System That Responds to Thermal and Aptamer-Target Regulations. Nano Letters, 2018, 18, 7395-7399.	4.5	76
16	Polarization-insensitive and wide-angle plasmonically induced transparency by planar metamaterials. Applied Physics Letters, 2012, 101, .	1.5	66
17	Polarization-insensitive and wide-angle broadband nearly perfect absorber by tunable planar metamaterials in the visible regime. Journal of Optics (United Kingdom), 2014, 16, 125107.	1.0	63
18	Dynamically tunable plasmonically induced transparency by planar hybrid metamaterial. Optics Letters, 2013, 38, 483.	1.7	61

#	Article	IF	Citations
19	A rotary plasmonic nanoclock. Nature Communications, 2019, 10, 5394.	5.8	50
20	Magnesium for Dynamic Nanoplasmonics. Accounts of Chemical Research, 2019, 52, 1979-1989.	7.6	46
21	Understanding complex chiral plasmonics. Nanoscale, 2015, 7, 17237-17243.	2.8	41
22	Reconfigurable Multistate Optical Systems Enabled by VO₂ Phase Transitions. ACS Photonics, 2020, 7, 2958-2965.	3.2	41
23	DNA-assembled nanoarchitectures with multiple components in regulated and coordinated motion. Science Advances, 2019, 5, eaax6023.	4.7	37
24	Dimerization and oligomerization of DNA-assembled building blocks for controlled multi-motion in high-order architectures. Nature Communications, 2021, 12, 3207.	5.8	22
25	DNA Programmable Self-Assembly of Planar, Thin-Layered Chiral Nanoparticle Superstructures with Complex Two-Dimensional Patterns. ACS Nano, 2021, 15, 16664-16672.	7.3	20
26	Self-recording and manipulation of fast long-range hydrogen diffusion in quasifree magnesium. Physical Review Materials, 2018, 2, .	0.9	17
27	Stabilizing Î³â€MgH₂ at Nanotwins in Mechanically Constrained Nanoparticles. Advanced Materials, 2021, 33, e2008259.	11.1	16
28	Realization of near-field linear nano-polarizer by asymmetric nanoaperture and bowtie nanoantenna. Optics Express, 2013, 21, 10342.	1.7	6
29	Hydrogen-regulated chiral nanoplasmonics. Proceedings of SPIE, 2016, , .	0.8	1