

Wei Yan

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,604
citations

218677

26
h-index

182427

51
g-index

60
all docs

60
docs citations

60
times ranked

2907
citing authors

#	ARTICLE	IF	CITATIONS
1	Resonant laser printing of structural colors on high-index dielectric metasurfaces. <i>Science Advances</i> , 2017, 3, e1602487.	10.3	251
2	Super-reflection and cloaking based on zero index metamaterial. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	226
3	Nonlocal Response of Metallic Nanospheres Probed by Light, Electrons, and Atoms. <i>ACS Nano</i> , 2014, 8, 1745-1758.	14.6	145
4	Broadband high-efficiency surface-plasmon-polariton coupler with silicon-metal interface. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	129
5	Bends and splitters in graphene nanoribbon waveguides. <i>Optics Express</i> , 2013, 21, 3486.	3.4	123
6	Cylindrical superlens by a coordinate transformation. <i>Physical Review B</i> , 2008, 78, .	3.2	121
7	Plasmon-Phonon Coupling in Large-Area Graphene Dot and Antidot Arrays Fabricated by Nanosphere Lithography. <i>Nano Letters</i> , 2014, 14, 2907-2913.	9.1	111
8	Experimental observation of plasmons in a graphene monolayer resting on a two-dimensional subwavelength silicon grating. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	109
9	Quantum Corrections in Nanoplasmonics: Shape, Scale, and Material. <i>Physical Review Letters</i> , 2017, 118, 157402.	7.8	105
10	A general theoretical and experimental framework for nanoscale electromagnetism. <i>Nature</i> , 2019, 576, 248-252.	27.8	103
11	Hyperbolic metamaterials: Nonlocal response regularizes broadband supersingularity. <i>Physical Review B</i> , 2012, 86, .	3.2	99
12	Projected Dipole Model for Quantum Plasmonics. <i>Physical Review Letters</i> , 2015, 115, 137403.	7.8	90
13	Coordinate transformations make perfect invisibility cloaks with arbitrary shape. <i>New Journal of Physics</i> , 2008, 10, 043040.	2.9	84
14	Hydrodynamic theory for quantum plasmonics: Linear-response dynamics of the inhomogeneous electron gas. <i>Physical Review B</i> , 2015, 91, .	3.2	75
15	Blueshift of the surface plasmon resonance in silver nanoparticles: substrate effects. <i>Optics Express</i> , 2013, 21, 27344.	3.4	70
16	Kerr nonlinearity and plasmonic bistability in graphene nanoribbons. <i>Physical Review B</i> , 2015, 92, .	3.2	66
17	Nonlocal response in plasmonic waveguiding with extreme light confinement. <i>Nanophotonics</i> , 2013, 2, 161-166.	6.0	63
18	The Phase Envelope of Multicomponent Mixtures in the Presence of a Capillary Pressure Difference. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 6530-6538.	3.7	56

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19	Surface modes at the interfaces between isotropic media and indefinite media. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 530.	1.5	47
20	Green's function surface-integral method for nonlocal response of plasmonic nanowires in arbitrary dielectric environments. <i>Physical Review B</i> , 2013, 88, .	3.2	44
21	Modeling of Shale Gas Adsorption and Its Influence on Phase Equilibrium. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 5736-5747.	3.7	41
22	Shape Deformation of Nanoresonator: A Quasinormal-Mode Perturbation Theory. <i>Physical Review Letters</i> , 2020, 125, 013901.	7.8	39
23	Hyperbolic metamaterial lens with hydrodynamic nonlocal response. <i>Optics Express</i> , 2013, 21, 15026.	3.4	35
24	Non-magnetic simplified cylindrical cloak with suppressed zeroth order scattering. <i>Applied Physics Letters</i> , 2008, 93, 021909.	3.3	33
25	Invisibility Cloaking by Coordinate Transformation. <i>Progress in Optics</i> , 2009, , 261-304.	0.6	31
26	Bright Plasmons with Cubic Nanometer Mode Volumes through Mode Hybridization. <i>ACS Photonics</i> , 2021, 8, 307-314.	6.6	30
27	Managing Injected Water Composition To Improve Oil Recovery: A Case Study of North Sea Chalk Reservoirs. <i>Energy & Fuels</i> , 2012, 26, 3407-3415.	5.1	27
28	Calculation of Multiphase Chemical Equilibrium by the Modified RAND Method. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 11983-11995.	3.7	22
29	Optimal Design of an Ionic Liquid (IL)-Based Aromatic Extractive Distillation Process Involving Energy and Economic Evaluation. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 3605-3616.	3.7	21
30	On the origin of nonlocal damping in plasmonic monomers and dimers. <i>International Journal of Modern Physics B</i> , 2017, 31, 1740005.	2.0	20
31	Application of a Crossover Equation of State to Describe Phase Equilibrium and Critical Properties of <i>n</i> -Alkanes and Methane/ <i>n</i> -Alkane Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 981-993.	1.9	15
32	Multiphase isenthalpic flash: General approach and its adaptation to thermal recovery of heavy oil. <i>AIChE Journal</i> , 2019, 65, 281-293.	3.6	15
33	Measurement of Liquid-Liquid Equilibria for Condensate + Glycol and Condensate + Glycol + Water Systems. <i>Journal of Chemical & Engineering Data</i> , 2011, 56, 4342-4351.	1.9	14
34	Generalized nihility media from transformation optics. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 024005.	2.2	13
35	Achieving perfect imaging beyond passive and active obstacles by a transformed bilayer lens. <i>Physical Review B</i> , 2009, 79, .	3.2	11
36	Optical Quality Improvement of Si Photonic Devices Fabricated by Focused-Ion-Beam Milling. <i>Journal of Lightwave Technology</i> , 2009, 27, 4306-4310.	4.6	11

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37	Micro-scale opto-thermo-mechanical actuation in the dry adhesive regime. <i>Light: Science and Applications</i> , 2021, 10, 193.	16.6	11
38	Interaction Between Negative and Positive Index Medium Waveguides. <i>Journal of Lightwave Technology</i> , 2008, 26, 3560-3566.	4.6	10
39	Nonclassical effects in plasmonics: An energy perspective to quantify nonclassical effects. <i>Physical Review B</i> , 2016, 93, .	3.2	10
40	Influence of geometrical perturbation at inner boundaries of invisibility cloaks. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 968.	1.5	9
41	Open waveguide cavity using a negative index medium. <i>Optics Letters</i> , 2008, 33, 2806.	3.3	7
42	Density and Compressibility of Multicomponent n-Alkane Mixtures up to 463 K and 140 MPa. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 1072-1080.	1.9	7
43	Two-dimensional optical edge detection. <i>Nature Photonics</i> , 2020, 14, 268-269.	31.4	7
44	Comparison of Two Types of Crossover Soaveâ€“Redlichâ€“Kwong Equations of State for Derivative Properties of <i>n</i> -Alkanes. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 9265-9278.	3.7	7
45	Modeling the Critical and Phase Equilibrium Properties of Pure Fluids and Mixtures with the Crossover Cubic-Plus-Association Equation of State. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 1095-1107.	1.9	6
46	Advanced Exergy Analysis for a Novel Gasoline Absorptionâ€“Stabilization Process. <i>ACS Omega</i> , 2021, 6, 15332-15347.	3.5	5
47	Lightâ€“Induced Inâ€“Plane Rotation of Microobjects on Microfibers. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	5
48	Generalized compensated bilayer structure from the transformation optics perspective. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, B39.	2.1	4
49	High-Q photonic crystal surface-mode cavities on crystalline SOI structures. <i>Optics Communications</i> , 2010, 283, 2461-2464.	2.1	4
50	Nanoplasmonics beyond Ohm's law. , 2012, , .		4
51	Manipulation of light with $\hat{\Lambda}$ transformation media. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2011, 28, 1058.	1.5	3
52	Negative Flash for Calculating the Intersecting Key Tielines in Multicomponent Gas Injection. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 14094-14112.	3.7	3
53	In-Situ Phase Identification and Saturation Determination in Carbon Dioxide Flooding of Water Flooded Chalk Using X-Ray Computed Tomography. , 2010, , .		2
54	17th International Conference on Petroleum Phase Behavior and Fouling. <i>Energy & Fuels</i> , 2017, 31, 3329-3329.	5.1	2

#	ARTICLE	IF	CITATIONS
55	Efficient modal analysis of plasmonic nanoparticles: from retardation to nonclassical regimes. <i>Nanophotonics</i> , 2022, 11, 1887-1895.	6.0	2
56	Effects of nonlocal response on the density of states of hyperbolic metamaterials. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
57	Transformation optics for designing superlenses. , 2009, , .		0
58	Propagation and excitation of graphene plasmon polaritons. , 2013, , .		0
59	Nonlocal modification and quantum optical generalization of effective-medium theory for metamaterials. , 2013, , .		0