

Wei Yan

List of Publications by Year in descending order

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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	Light-Induced In-Plane Rotation of Microobjects on Microfibers. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	5
2	Efficient modal analysis of plasmonic nanoparticles: from retardation to nonclassical regimes. <i>Nanophotonics</i> , 2022, 11, 1887-1895.	6.0	2
3	Bright Plasmons with Cubic Nanometer Mode Volumes through Mode Hybridization. <i>ACS Photonics</i> , 2021, 8, 307-314.	6.6	30
4	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
5	Advanced Exergy Analysis for a Novel Gasoline Absorption-Stabilization Process. <i>ACS Omega</i> , 2021, 6, 15332-15347.	3.5	5
6	Micro-scale opto-thermo-mechanical actuation in the dry adhesive regime. <i>Light: Science and Applications</i> , 2021, 10, 193.	16.6	11
7	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
8	Shape Deformation of Nanoresonator: A Quasinormal-Mode Perturbation Theory. <i>Physical Review Letters</i> , 2020, 125, 013901.	7.8	39
9	Two-dimensional optical edge detection. <i>Nature Photonics</i> , 2020, 14, 268-269.	31.4	7
10	Comparison of Two Types of Crossover Soave-Redlich-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
11	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
12	A general theoretical and experimental framework for nanoscale electromagnetism. <i>Nature</i> , 2019, 576, 248-252.	27.8	103
13	Modeling of Shale Gas Adsorption and Its Influence on Phase Equilibrium. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 5736-5747.	3.7	41
14	Density and Compressibility of Multicomponent <i>n</i> -Alkane Mixtures up to 463 K and 140 MPa. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 1072-1080.	1.9	7
15	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
16	Resonant laser printing of structural colors on high-index dielectric metasurfaces. <i>Science Advances</i> , 2017, 3, e1602487.	10.3	251
17	17th International Conference on Petroleum Phase Behavior and Fouling. <i>Energy & Fuels</i> , 2017, 31, 3329-3329.	5.1	2
18	Calculation of Multiphase Chemical Equilibrium by the Modified RAND Method. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 11983-11995.	3.7	22

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19	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
20	Quantum Corrections in Nanoplasmonics: Shape, Scale, and Material. <i>Physical Review Letters</i> , 2017, 118, 157402.	7.8	105
21	Nonclassical effects in plasmonics: An energy perspective to quantify nonclassical effects. <i>Physical Review B</i> , 2016, 93, .	3.2	10
22	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
23	Kerr nonlinearity and plasmonic bistability in graphene nanoribbons. <i>Physical Review B</i> , 2015, 92, .	3.2	66
24	Projected Dipole Model for Quantum Plasmonics. <i>Physical Review Letters</i> , 2015, 115, 137403.	7.8	90
25	Hydrodynamic theory for quantum plasmonics: Linear-response dynamics of the inhomogeneous electron gas. <i>Physical Review B</i> , 2015, 91, .	3.2	75
26	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
27	Nonlocal Response of Metallic Nanospheres Probed by Light, Electrons, and Atoms. <i>ACS Nano</i> , 2014, 8, 1745-1758.	14.6	145
28	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
29	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
30	Propagation and excitation of graphene plasmon polaritons. , 2013, , .		0
31	Nonlocal modification and quantum optical generalization of effective-medium theory for metamaterials. , 2013, , .		0
32	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
33	Bends and splitters in graphene nanoribbon waveguides. <i>Optics Express</i> , 2013, 21, 3486.	3.4	123
34	Blueshift of the surface plasmon resonance in silver nanoparticles: substrate effects. <i>Optics Express</i> , 2013, 21, 27344.	3.4	70
35	Hyperbolic metamaterial lens with hydrodynamic nonlocal response. <i>Optics Express</i> , 2013, 21, 15026.	3.4	35
36	Nonlocal response in plasmonic waveguiding with extreme light confinement. <i>Nanophotonics</i> , 2013, 2, 161-166.	6.0	63

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37	Effects of nonlocal response on the density of states of hyperbolic metamaterials. Proceedings of SPIE, 2012, , .	0.8	1
38	Nanoplasmonics beyond Ohm's law. , 2012, , .		4
39	Hyperbolic metamaterials: Nonlocal response regularizes broadband supersingularity. Physical Review B, 2012, 86, .	3.2	99
40	Managing Injected Water Composition To Improve Oil Recovery: A Case Study of North Sea Chalk Reservoirs. Energy & Fuels, 2012, 26, 3407-3415.	5.1	27
41	Generalized nihility media from transformation optics. Journal of Optics (United Kingdom), 2011, 13, 024005.	2.2	13
42	Measurement of Liquid-Liquid Equilibria for Condensate + Glycol and Condensate + Glycol + Water Systems. Journal of Chemical & Engineering Data, 2011, 56, 4342-4351.	1.9	14
43	Manipulation of light with $\hat{\mu}$ transformation media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 1058.	1.5	3
44	In-Situ Phase Identification and Saturation Determination in Carbon Dioxide Flooding of Water Flooded Chalk Using X-Ray Computed Tomography. , 2010, , .		2
45	High-Q photonic crystal surface-mode cavities on crystalline SOI structures. Optics Communications, 2010, 283, 2461-2464.	2.1	4
46	Super-reflection and cloaking based on zero index metamaterial. Applied Physics Letters, 2010, 96, .	3.3	226
47	Achieving perfect imaging beyond passive and active obstacles by a transformed bilayer lens. Physical Review B, 2009, 79, .	3.2	11
48	Transformation optics for designing superlenses. , 2009, , .		0
49	Broadband high-efficiency surface-plasmon-polariton coupler with silicon-metal interface. Applied Physics Letters, 2009, 95, .	3.3	129
50	Optical Quality Improvement of Si Photonic Devices Fabricated by Focused-Ion-Beam Milling. Journal of Lightwave Technology, 2009, 27, 4306-4310.	4.6	11
51	Generalized compensated bilayer structure from the transformation optics perspective. Journal of the Optical Society of America B: Optical Physics, 2009, 26, B39.	2.1	4
52	Invisibility Cloaking by Coordinate Transformation. Progress in Optics, 2009, , 261-304.	0.6	31
53	Open waveguide cavity using a negative index medium. Optics Letters, 2008, 33, 2806.	3.3	7
54	Interaction Between Negative and Positive Index Medium Waveguides. Journal of Lightwave Technology, 2008, 26, 3560-3566.	4.6	10

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55	Influence of geometrical perturbation at inner boundaries of invisibility cloaks. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 968.	1.5	9
56	Coordinate transformations make perfect invisibility cloaks with arbitrary shape. New Journal of Physics, 2008, 10, 043040.	2.9	84
57	Cylindrical superlens by a coordinate transformation. Physical Review B, 2008, 78, .	3.2	121
58	Non-magnetic simplified cylindrical cloak with suppressed zeroth order scattering. Applied Physics Letters, 2008, 93, 021909.	3.3	33
59	Surface modes at the interfaces between isotropic media and indefinite media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 530.	1.5	47