Yi-Jun Jen

List of Publications by Year
in descending order

73 papers	1,639 citations	516710 16 h-index	289244 40 g-index
74 all docs	74 docs citations	74 times ranked	2124 citing authors

#	Article	IF	Citations
1	Improved broadband and quasi-omnidirectional anti-reflection properties with biomimetic silicon nanostructures. Nature Nanotechnology, 2007, 2, 770-774.	31.5	1,022
2	Vapor-deposited thin films with negative real refractive index in the visible regime. Optics Express, 2009, 17, 7784.	3.4	43
3	Biologically inspired achromatic waveplates for visible light. Nature Communications, 2011, 2, 363.	12.8	40
4	Multiple trains of same-color surface plasmon-polaritons guided by the planar interface of a metal and a sculptured nematic thin film. Part III: Experimental evidence. Journal of Nanophotonics, 2009, 3, 033506.	1.0	38
5	Multilayered structures for p- and s-polarized long-range surface-plasmon-polariton propagation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2009, 26, 2600.	1.5	32
6	Optical constant determination of an anisotropic thin film via polarization conversion. Optics Express, 2007, 15, 4445.	3.4	30
7	Self-Shadowing Deposited Pure Metal Nanohelix Arrays and SERS Application. Nanoscale Research Letters, 2015, 10, 498.	5.7	24
8	Glancing angle deposited gold nanohelix arrays on smooth glass as three-dimensional SERS substrates. Optical Materials Express, 2016, 6, 697.	3.0	23
9	Deposited metamaterial thin film with negative refractive index and permeability in the visible regime. Optics Letters, 2011, 36, 1014.	3.3	21
10	Fabry-Perot based metal-dielectric multilayered filters and metamaterials. Optics Express, 2015, 23, 33008.	3.4	21
11	Negative refraction in a uniaxial absorbent dielectric material. European Journal of Physics, 2009, 30, 1381-1390.	0.6	20
12	Reflection and transmission phenomena of waves propagating between an isotropic medium and an arbitrarily oriented anisotropic medium. Optics Letters, 2001, 26, 190.	3.3	18
13	Optical constant determination of an anisotropic thin film via surface plasmon resonance: analyzed by sensitivity calculation. Optics Communications, 2005, 244, 269-277.	2.1	18
14	Densely packed aluminum-silver nanohelices as an ultra-thin perfect light absorber. Scientific Reports, 2017, 7, 39791.	3.3	18
15	Anisotropic optical thin films finely sculptured by substrate sweep technology. Optics Express, 2008, 16, 5372.	3.4	17
16	Metal/dielectric/metal sandwich film for broadband reflection reduction. Scientific Reports, 2013, 3, 1672.	3.3	16
17	Design and deposition of a metal-like and admittance-matching metamaterial as an ultra-thin perfect absorber. Scientific Reports, 2017, 7, 3076.	3.3	16
18	Design and Fabrication of a Narrow Bandpass Filter with Low Dependence on Angle of Incidence. Coatings, 2018, 8, 231.	2.6	14

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19	Negative real parts of the equivalent permittivity, permeability, and refractive index of sculptured-nanorod arrays of silver. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 1078-1083.	2.1	12
20	Silver/silicon dioxide/silver sandwich films in the blue-to-red spectral regime with negative-real refractive index. Applied Physics Letters, 2011, 99, 181117.	3.3	12
21	Symmetric Metaâ€Absorberâ€Induced Superchirality. Advanced Optical Materials, 2019, 7, 1901038.	7.3	12
22	Surface plasmon resonance via polarization conversion in a weak anisotropic thin film. Applied Physics Letters, 2009, 94, .	3.3	11
23	Near-field simulation of obliquely deposited surface-enhanced Raman scattering substrates. Journal of Applied Physics, 2012, 112, .	2.5	11
24	Obliquely Deposited Titanium Nitride Nanorod Arrays as Surface-Enhanced Raman Scattering Substrates. Sensors, 2019, 19, 4765.	3.8	11
25	Extinction Properties of Obliquely Deposited TiN Nanorod Arrays. Coatings, 2018, 8, 465.	2.6	10
26	An interference coating of metamaterial as an ultrathin light absorber in the violet-to-infrared regime. Optics Express, 2013, 21, 10259.	3.4	9
27	Bideposited silver nanocolloid arrays with strong plasmon-induced birefringence for SERS application. Scientific Reports, 2020, 10, 20143.	3.3	9
28	Enhanced polarization conversion for an anisotropic thin film. Optics Communications, 2006, 265, 446-453.	2.1	8
29	Orthogonal polarization Mirau interferometer using reflective-type waveplate. Optics Letters, 2013, 38, 2502.	3.3	8
30	Deposited ultra-thin titanium nitride nanorod array as a plasmonic near-perfect light absorber. Scientific Reports, 2020, 10, 22269.	3.3	8
31	Modulation of the polarization state of light using a weak anisotropic thin film. Optics Letters, 2008, 33, 467.	3.3	7
32	Optical configuration for unpolarized ultra-long-range surface-plasmon-polariton waves. Applied Optics, 2011, 50, C154.	2.1	7
33	Deposition of Ta 2 O 5 upon silver nanorods as an ultra-thin light absorber. Thin Solid Films, 2014, 567, 38-46.	1.8	7
34	Tunable tapered waveguide for efficient compression of light to graphene surface plasmons. Scientific Reports, 2016, 6, 28799.	3.3	6
35	Slanted S-shaped nano-columnar thin films for broadband and wide-angle polarization conversion. Optical Materials Express, 2011, 1, 525.	3.0	5
36	Commentary: Arbitrarily polarized long-range surface-plasmon-polariton waves. Journal of Nanophotonics, 2011, 5, 050304.	1.0	5

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37	Extended broadband achromatic reflective-type waveplate. Optics Letters, 2012, 37, 4296.	3.3	5
38	Strong light coupling effect for a glancing-deposited silver nanorod array in the Kretschmann configuration. Nanoscale Research Letters, 2014, 9, 567.	5.7	5
39	The Effect of Glancing Angle Deposition Conditions on the Morphology of a Silver Nanohelix Array. Coatings, 2017, 7, 140.	2.6	5
40	Single dielectric columnar thin film as a humidity sensor. Sensors and Actuators B: Chemical, 2010, 149, 67-70.	7.8	4
41	Tunable Plasmonic Resonances in TiN Nanorod Arrays. Coatings, 2019, 9, 863.	2.6	4
42	Z-shape nanostructured array deposited by substrate cooling method. Journal of Nanophotonics, 2016, 10, 033005.	1.0	3
43	Design a Stratiform Metamaterial with Precise Optical Property. Symmetry, 2019, 11, 1464.	2.2	3
44	Design of a Hyperbolic Metamaterial as a Waveguide for Low-Loss Propagation of Plasmonic Wave. Symmetry, 2021, 13, 291.	2.2	3
45	Near-perfect modulator for polarization state of light. Journal of Nanophotonics, 2008, 2, 029504.	1.0	2
46	Design of an achromatic optical coating waveplate. Journal of Nanophotonics, 2012, 6, 061501.	1.0	2
47	Aluminum-jointed silicon dioxide octagon nanohelix array with desired complex refractive index. Optics Letters, 2014, 39, 3386.	3.3	2
48	Obliquely Deposited Gold Nanohelices on Lithography-Free Prepared Nanoseeded Surfaces. Nanoscale Research Letters, 2017, 12, 485.	5.7	2
49	Circular Dichroism Enhancement: Symmetric Metaâ€Absorberâ€Induced Superchirality (Advanced Optical) Tj ETQq1 1 0.784314 rgBT /C	7.3	2
50	Experimental verification of backward-wave phenomenon by observation of reflection at angles larger than 90Â° in an anisotropic medium. Applied Physics Letters, 2003, 83, 3266-3268.	3.3	1
51	Total reflection of waves propagating from a rare isotropic medium to a dense anisotropic medium. Optics Communications, 2004, 233, 271-275.	2.1	1
52	Effects of the equivalent coupling layer on ultra-long-range surface-plasmon-polariton waves. Optics Express, 2010, 18, 7982.	3.4	1
53	Shape effect on the real parts ofÂequivalent permeability of chevron thin films of silver. Journal of Nanophotonics, 2011, 5, 051507.	1.0	1
54	Three-layered thin film system for broadband polarization conversion reflectance. Journal of Nanophotonics, 2011, 5, 051508.	1.0	1

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55	Response to â€œComment on â€˜Silver/silicon dioxide/silver sandwich films in the blue-to-red spectral regime with negative-real refractive indexâ€™â€•[Appl. Phys. Lett. 101, 156101 (2012)]. Applied Physics Letters, 2012, 101, 156102.	3.3	1
56	Optical coating on nano-optical antennas to enhance directional radiation. Journal of Nanophotonics, 2015, 9, 093595.	1.0	1
57	Capping metallic nanohelixes with SiO2 nanohelixes to enhance broadband and wide-angle light extinction. Optics Express, 2018, 26, 21510.	3.4	1
58	Backward wave phenomenon for light propagating through a silver nanorod array. , 2009, , .		0
59	Single dielectric columnar thin film as a broadband polarization conversion device. , 2010, , .		0
60	Shape effect on the negative equivalent permeabilities of chevronic thin films of silver. Proceedings of SPIE, 2010, , .	0.8	0
61	Using a single anisotropic thin film as a phase retarder for oblique incident wave. , 2011, , .		0
62	Effect of size of aluminum/silicon dioxide/aluminum nanosandwich films on their optical properties. Journal of Nanophotonics, 2014, 8, 083994.	1.0	0
63	Metamaterial-inspired compact optical coating for broadband polarization beam splitting. Optics Express, 2018, 26, 811.	3.4	0
64	Analysis of the passband and stopband of symmetrical metal-dielectric films. , 2018, , .		0
65	Apply Cosine-Shape Nanostructured Thin Film in TE Mode Surface Plasmon Resonance. , 2010, , .		0
66	Negative Real Part of Equivalent Refractive Index of a Chevronic Nanostructured Film of Silver. , 2010, , .		0
67	Achromatic Polarization Switch by Using a Single Anisotropic Columnar Thin Film. , 2010, , .		0
68	Multilayer Design for P- and S-Polarized Long-Range Surface-Plasmon-Polariton Waves. , 2010, , .		0
69	Negative Real Parts of Equivalent Refractive Indices of Silver Nanorod Arrays with Different Thicknesses. , 2010, , .		0
70	Photonic nanostructure design for high efficiency light absorber. , 2017, , .		0
71	Optical coatings for metamaterials. , 2019, , .		0
72	Surface-Enhanced Raman Scattering from Obliquely Deposited TiN Nanorod Arrays. , 2019, , .		0

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73	Obliquely Bideposited TiN Thin Film with Morphology-Dependent Optical Properties. Coatings, 2021, 11, 1418.	2.6	0