Din Ping Tsai

List of Publications by Citations

346 papers	17,555 citations	63 h-index	122 g-index
430 ext. papers	20,933 ext. citations	5.8 avg, IF	6.84 L-index

#	Paper	IF	Citations
346	Plasmonic photocatalysis. *Reports on Progress in Physics*, **2013**, 76, 046401	14.4	942
345	High-efficiency broadband anomalous reflection by gradient meta-surfaces. *Nano Letters*, **2012**, 12, 6223-9	11.5	856
344	A broadband achromatic metalens in the visible. *Nature Nanotechnology*, **2018**, 13, 227-232	28.7	723
343	High-efficiency broadband meta-hologram with polarization-controlled dual images. *Nano Letters*, **2014**, 14, 225-30	11.5	517
342	Toroidal dipolar response in a metamaterial. *Science*, **2010**, 330, 1510-2	33.3	469
341	Broadband achromatic optical metasurface devices. *Nature Communications*, **2017**, 8, 187	17.4	461
340	Directed subwavelength imaging using a layered metal-dielectric system. *Physical Review B*, **2006**, 74,	3.3	398
339	Metamaterials: optical activity without chirality. *Physical Review Letters*, **2009**, 102, 113902	7.4	393
338	Gate-Tunable Conducting Oxide Metasurfaces. *Nano Letters*, **2016**, 16, 5319-25	11.5	381
337	Aluminum plasmonic multicolor meta-hologram. *Nano Letters*, **2015**, 15, 3122-7	11.5	373
336	Fundamentals and Applications of Metasurfaces. *Small Methods*, **2017**, 1, 1600064	12.8	303
335	Plasmon inducing effects for enhanced photoelectrochemical water splitting: X-ray absorption approach to electronic structures. *ACS Nano*, **2012**, 6, 7362-72	16.7	283
334	Metamaterial with polarization and direction insensitive resonant transmission response mimicking electromagnetically induced transparency. *Applied Physics Letters*, **2009**, 94, 211902	3.4	229
333	Versatile Polarization Generation with an Aluminum Plasmonic Metasurface. *Nano Letters*, **2017**, 17, 445-452	11.5	220
332	Plasmonic Photocatalyst for H2 Evolution in Photocatalytic Water Splitting. *Journal of Physical Chemistry C*, **2011**, 115, 210-216	3.8	220
331	Active dielectric metasurface based on phase-change medium. *Laser and Photonics Reviews*, **2016**, 10, 986-994	8.3	220
330	Achromatic metalens array for full-colour light-field imaging. *Nature Nanotechnology*, **2019**, 14, 227-231	28.7	219

329	Photon scanning tunneling microscopy images of optical excitations of fractal metal colloid clusters. *Physical Review Letters*, **1994**, 72, 4149-4152	7.4	208
328	GaN Metalens for Pixel-Level Full-Color Routing at Visible Light. *Nano Letters*, **2017**, 17, 6345-6352	11.5	197
327	Resonant transparency and non-trivial non-radiating excitations in toroidal metamaterials. *Scientific Reports*, **2013**, 3, 2967	4.9	188
326	Towards the lasing spaser: controlling metamaterial optical response with semiconductor quantum dots. *Optics Express*, **2009**, 17, 8548-51	3.3	174
325	Seedless, silver-induced synthesis of star-shaped gold/silver bimetallic nanoparticles as high efficiency photothermal therapy reagent. *Journal of Materials Chemistry*, **2012**, 22, 2244-2253		171
324	Microelectromechanical Maltese-cross metamaterial with tunable terahertz anisotropy. *Nature Communications*, **2012**, 3, 1274	17.4	167
323	Switchable magnetic metamaterials using micromachining processes. *Advanced Materials*, **2011**, 23, 1792-6	21.4	167
322	Spectral collapse in ensembles of metamolecules. *Physical Review Letters*, **2010**, 104, 223901	7.4	148
321	Optical Anapole Metamaterial. *ACS Nano*, **2018**, 12, 1920-1927	16.7	142
320	Advances in optical metasurfaces: fabrication and applications [Invited]. *Optics Express*, **2018**, 26, 13148-13182	3.3	139
319	Design of plasmonic toroidal metamaterials at optical frequencies. *Optics Express*, **2012**, 20, 1760-8	3.3	137
318	A Micromachined Reconfigurable Metamaterial via Reconfiguration of Asymmetric Split-Ring Resonators. *Advanced Functional Materials*, **2011**, 21, 3589-3594	15.6	135
317	All-dielectric metasurface for high-performance structural color. *Nature Communications*, **2020**, 11, 1864	17.4	128
316	Broadband Wide-Angle Multifunctional Polarization Converter via Liquid-Metal-Based Metasurface. *Advanced Optical Materials*, **2017**, 5, 1600938	8.1	123
315	Optofluidic waveguide as a transformation optics device for lightwave bending and manipulation. *Nature Communications*, **2012**, 3, 651	17.4	123
314	CO2 photoreduction using NiO/InTaO4 in optical-fiber reactor for renewable energy. *Applied Catalysis A: General*, **2010**, 380, 172-177	5.1	119
313	Biosensing, Cytotoxicity, and Cellular Uptake Studies of Surface-Modified Gold Nanorods. *Journal of Physical Chemistry C*, **2009**, 113, 7574-7578	3.8	118
312	Nanometer-precision linear sorting with synchronized optofluidic dual barriers. *Science Advances*, **2018**, 4, eaao0773	14.3	114

311	Ultrafast all-optical switching via coherent modulation of metamaterial absorption. *Applied Physics Letters*, **2014**, 104, 141102	3.4	113
310	Light well: a tunable free-electron light source on a chip. *Physical Review Letters*, **2009**, 103, 113901	7.4	109
309	Toroidal lasing spaser. *Scientific Reports*, **2013**, 3, 1237	4.9	99
308	Micromachined tunable metamaterials: a review. *Journal of Optics (United Kingdom)*, **2012**, 14, 114009	1.7	99
307	A flat lens with tunable phase gradient by using random access reconfigurable metamaterial. *Advanced Materials*, **2015**, 27, 4739-43	24	92
306	Optofluidic planar reactors for photocatalytic water treatment using solar energy. *Biomicrofluidics*, **2010**, 4, 43004	3.2	91
305	Metalens-array-based high-dimensional and multiphoton quantum source. *Science*, **2020**, 368, 1487-1490	33.3	89
304	Integrated plasmonic metasurfaces for spectropolarimetry. *Nanotechnology*, **2016**, 27, 224002	3.4	89
303	Improved Photocatalytic Activity of Shell-Isolated Plasmonic Photocatalyst [email´protected]2/TiO2 by Promoted LSPR. *Journal of Physical Chemistry C*, **2012**, 116, 26535-26542	3.8	87
302	Probing the near fields of the super-resolution near-field optical structure. *Applied Physics Letters*, **2000**, 77, 1413-1415	3.4	86
301	Sculpting nanoparticle dynamics for single-bacteria-level screening and direct binding-efficiency measurement. *Nature Communications*, **2018**, 9, 815	17.4	85
300	Coherent and incoherent metamaterials and order-disorder transitions. *Physical Review B*, **2009**, 80,	3.3	83
299	Metalenses: Advances and Applications. *Advanced Optical Materials*, **2018**, 6, 1800554	8.1	82
298	Application of Optical-fiber Photoreactor for CO2 Photocatalytic Reduction. *Topics in Catalysis*, **2008**, 47, 131-136	2.3	80
297	Laser-induced phase transitions of Ge2Sb2Te5 thin films used in optical and electronic data storage and in thermal lithography. *Optics Express*, **2010**, 18, 18383-93	3.3	78
296	Optical magnetic response in three-dimensional metamaterial of upright plasmonic meta-molecules. *Optics Express*, **2011**, 19, 12837-42	3.3	77
295	Water-Resonator-Based Metasurface: An Ultrabroadband and Near-Unity Absorption. *Advanced Optical Materials*, **2017**, 5, 1601103	8.1	76
294	A New Approach to Solar Hydrogen Production: a ZnO⁄ZnS Solid Solution Nanowire Array Photoanode. *Advanced Energy Materials*, **2011**, 1, 742-747	21.8	76

293	Size Dependence of Nanoparticle-SERS Enhancement from Silver Film over Nanosphere (AgFON) Substrate. *Plasmonics*, **2011**, 6, 201-206	2.4	74
292	Plasmonic ZnO/Ag embedded structures as collecting layers for photogenerating electrons in solar hydrogen generation photoelectrodes. *Small*, **2013**, 9, 2926-36	11	72
291	Readout contrast beyond diffraction limit by a slab of random nanostructures. *Optics Express*, **2007**, 15, 12-23	3.3	72
290	Visible Metasurfaces for On-Chip Polarimetry. *ACS Photonics*, **2018**, 5, 2568-2573	6.3	72
289	Extraordinary optical fields in nanostructures: from sub-diffraction-limited optics to sensing and energy conversion. *Chemical Society Reviews*, **2019**, 48, 2458-2494	58.5	67
288	Near-field images of the AgOx-type super-resolution near-field structure. *Applied Physics Letters*, **2001**, 78, 685-687	3.4	67
287	Self-Affine Graphene Metasurfaces for Tunable Broadband Absorption. *Physical Review Applied*, **2016**, 6,	4.3	64
286	Vertical split-ring resonator based nanoplasmonic sensor. *Applied Physics Letters*, **2014**, 105, 033105	3.4	64
285	Optical tunneling effect of surface plasmon polaritons and localized surface plasmon resonance. *Physical Review B*, **2002**, 65,	3.3	63
284	Multi-Bandgap-Sensitized ZnO Nanorod Photoelectrode Arrays for Water Splitting: An X-ray Absorption Spectroscopy Approach for the Electronic Evolution under Solar Illumination. *Journal of Physical Chemistry C*, **2011**, 115, 21971-21980	3.8	61
283	Reprogrammable meta-hologram for optical encryption. *Nature Communications*, **2020**, 11, 5484	17.4	60
282	Hydrogen-free PECVD growth of few-layer graphene on an ultra-thin nickel film at the threshold dissolution temperature. *Journal of Materials Chemistry C*, **2013**, 1, 3862	7.1	60
281	A Versatile Route to the Controlled Synthesis of Gold Nanostructures. *Crystal Growth and Design*, **2009**, 9, 2079-2087	3.5	60
280	Photon scanning tunneling microscope study of optical waveguides. *Applied Physics Letters*, **1990**, 56, 1515-1517	3.4	60
279	Subwavelength interference of light on structured surfaces. *Advances in Optics and Photonics*, **2018**, 10, 757	16.7	60
278	Fast fabrication of a Ag nanostructure substrate using the femtosecond laser for broad-band and tunable plasmonic enhancement. *ACS Nano*, **2012**, 6, 5190-7	16.7	58
277	Plasmonic enhancement of Fɛster energy transfer between two molecules in the vicinity of a metallic nanoparticle: Nonlocal optical effects. *Physical Review B*, **2009**, 80,	3.3	58
276	High birefringence photonic crystal fiber with a complex unit cell of asymmetric elliptical air hole cladding. *Applied Optics*, **2007**, 46, 5276-81	1.7	58

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274	Magnetic plasmon induced transparency in three-dimensional metamolecules. *Nanophotonics*, **2012** , 1, 131-138	6.3	57
273	Raman spectroscopy using a fiber optic probe with subwavelength aperture. *Applied Physics Letters* , **1994**, 64, 1768-1770	3.4	57
272	Surface plasmon resonance monitoring of temperature via phase measurement. *Optics Communications*, **2004**, 241, 409-418	2	56
271	Plasmon-induced hyperthermia: hybrid upconversion NaYF:Yb/Er and gold nanomaterials for oral cancer photothermal therapy. *Journal of Materials Chemistry B*, **2015**, 3, 8293-8302	7.3	55
270	Uniaxial-isotropic Metamaterials by Three-Dimensional Split-Ring Resonators. *Advanced Optical Materials*, **2015**, 3, 44-48	8.1	55
269	Isotropic Absorption and Sensor of Vertical Split-Ring Resonator. *Advanced Optical Materials*, **2017**, 5, 1600581	8.1	55
268	Near-field optical properties and surface plasmon effects generated by a dielectric hole in a silver-shell nanocylinder pair. *Applied Optics*, **2008**, 47, 5557-61	0.2	55
267	Landau Damping and Limit to Field Confinement and Enhancement in Plasmonic Dimers. *ACS Photonics*, **2017**, 4, 2871-2880	6.3	54
266	Plasmonic optical properties of a single gold nano-rod. *Optics Express*, **2007**, 15, 7132-9	3.3	54
265	Chirality-assisted lateral momentum transfer for bidirectional enantioselective separation. *Light: Science and Applications*, **2020**, 9, 62	16.7	54
264	Plasmon coupling in vertical split-ring resonator metamolecules. *Scientific Reports*, **2015**, 5, 9726	4.9	53
263	Spectral tomographic imaging with aplanatic metalens. *Light: Science and Applications*, **2019**, 8, 99	16.7	53
262	High birefringence and low loss circular air-holes photonic crystal fiber using complex unit cells in cladding. *Optics Communications*, **2008**, 281, 4334-4338	2	53
261	Vacuum Ultraviolet Light-Generating Metasurface. *Nano Letters*, **2018**, 18, 5738-5743	11.5	52
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259	Reflection and emission properties of an infrared emitter. *Optics Express*, **2007**, 15, 14673-8	3.3	50
258	A Microscopic Surface-Enhanced Raman Study of a Single Adsorbate-Covered Colloidal Silver Aggregate. *The Journal of Physical Chemistry*, **1996**, 100, 3169-3174		49

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256	Fabrication of phase-change chalcogenide Ge2Sb2Te5 patterns by laser-induced forward transfer. *Optics Express*, **2011**, 19, 16975-84	3.3	46
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254	Deep-Ultraviolet Hyperbolic Metacavity Laser. *Advanced Materials*, **2018**, 30, e1706918	24	45
253	Fabrication of three dimensional split ring resonators by stress-driven assembly method. *Optics Express*, **2012**, 20, 9415-20	3.3	45
252	T-shaped plasmonic array as a narrow-band thermal emitter or biosensor. *Optics Express*, **2009**, 17, 13526-31	3.31	45
251	Chalcogenide glasses in active plasmonics. *Physica Status Solidi - Rapid Research Letters*, **2010**, 4, 274-276	2.5	44
250	Controlling SERS intensity by tuning the size and height of a silver nanoparticle array. *Applied Physics A: Materials Science and Processing*, **2010**, 101, 185-189	2.6	44
249	Fractals: Localization of dipole excitations and giant optical polarizabilities. *Physica A: Statistical Mechanics and Its Applications*, **1994**, 207, 197-207	3.3	44
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247	Toroidal circular dichroism. *Physical Review B*, **2016**, 94,	3.3	42
246	Integrated Resonant Unit of Metasurfaces for Broadband Efficiency and Phase Manipulation. *Advanced Optical Materials*, **2018**, 6, 1800031	8.1	41
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244	Fabrication of multilayer metamaterials by femtosecond laser-induced forward-transfer technique. *Laser and Photonics Reviews*, **2012**, 6, 702-707	8.3	40
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241	Near-infrared quantum cutting platform in thermally stable phosphate phosphors for solar cells. *Inorganic Chemistry*, **2013**, 52, 7352-7	5.1	39
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239	Principles, Functions, and Applications of Optical Meta-Lens. *Advanced Optical Materials*, **2021**, 9, 2001418	8.1	39
238	Comparative Analysis of Metals and Alternative Infrared Plasmonic Materials. *ACS Photonics*, **2018**, 5, 2541-2548	6.3	38
237	Surface Plasmon Resonances Effects on Different Patterns of Solid-silver and Silver-shell Nanocylindrical Pairs. *Journal of Electromagnetic Waves and Applications*, **2010**, 24, 1005-1014	1.3	38
236	Investigation of the Growth Mechanism of Iron Oxide Nanoparticles via a Seed-Mediated Method and Its Cytotoxicity Studies. *Journal of Physical Chemistry C*, **2008**, 112, 15684-15690	3.8	38
235	Coherent Excitation-Selective Spectroscopy of Multipole Resonances. *Physical Review Applied*, **2016**, 5,	4.3	37
234	Enhanced surface plasmon resonance based on the silver nanoshells connected by the nanobars. *Optics Express*, **2010**, 18, 3510-8	3.3	37
233	Tunable plasmonic resonance arising from broken-symmetric silver nanobeads with dielectric cores. *Journal of Optics (United Kingdom)*, **2012**, 14, 114010	1.7	37
232	Surface plasmon effects excitation from three-pair arrays of silver-shell nanocylinders. *Physics of Plasmas*, **2009**, 16, 022303	2.1	37
231	Nanoscale surface electrical properties of aluminum zinc oxide thin films investigated by scanning probe microscopy. *Journal of Applied Physics*, **2008**, 104, 114314	2.5	37
230	Arbitrary and Independent Polarization Control In Situ via a Single Metasurface. *Advanced Optical Materials*, **2018**, 6, 1800728	8.1	36
229	Local electrical characterization of laser-recorded phase-change marks on amorphous Ge2Sb2Te5 thin films. *Optics Express*, **2011**, 19, 9492-504	3.3	36
228	Enhanced Sensitivity of Surface Plasmon Resonance Phase-Interrogation Biosensor by Using Silver Nanoparticles. *Plasmonics*, **2011**, 6, 29-34	2.4	36
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224	Micro-optical nonlinearity of a silver oxide layer. *Journal of Applied Physics*, **2001**, 89, 6139-6144	2.5	36
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215	Generating Third Harmonic Vacuum Ultraviolet Light with a TiO Metasurface. *Nano Letters*, **2019**, 19, 8972-8978	11.5	32
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210	Ultrafast Thermal Nonlinearity. *Scientific Reports*, **2015**, 5, 17899	4.9	31
209	A COMPARATIVE STUDY OF HIGH BIREFRINGENCE AND LOW CONFINEMENT LOSS PHOTONIC CRYSTAL FIBER EMPLOYING ELLIPTICAL AIR HOLES IN FIBER CLADDING WITH TETRAGONAL LATTICE. *Progress in Electromagnetics Research B*, **2010**, 22, 39-52	0.7	31
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205	Adaptable metasurface for dynamic anomalous reflection. *Applied Physics Letters*, **2017**, 110, 201904	3.4	29
204	Liquid-metal-based metasurface for terahertz absorption material: Frequency-agile and wide-angle. *APL Materials*, **2017**, 5, 066103	5.7	29

203	Toward omnidirectional light absorption by plasmonic effect for high-efficiency flexible nonvacuum Cu(In,Ga)Se2 thin film solar cells. *ACS Nano*, **2014**, 8, 9341-8	16.7	29
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200	Fabricating graphite nano-sheet powder by slow electrochemical exfoliation of large-scale graphite foil as a mode-locker for fiber lasers. *Optical Materials Express*, **2013**, 3, 1893	2.6	28
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196	Dynamic Aperture of Near-Field Super Resolution Structures. *Japanese Journal of Applied Physics*, **2000**, 39, 982-983	1.4	26
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193	Three-dimensional plasmonic micro projector for light manipulation. *Advanced Materials*, **2013**, 25, 1118-23	24	25
192	Characterization of nano recorded marks at different writing strategies on phase-change recording layer of optical disks. *Optics Express*, **2006**, 14, 4452-8	3.3	25
191	Twisted Surface Plasmons with Spin-Controlled Gold Surfaces. *Advanced Optical Materials*, **2019**, 7, 1801660	8.0	25
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184	Imaging local index variations in an optical waveguide using a tapping-mode near-field scanning optical microscope. *Applied Physics Letters*, **1999**, 75, 1039-1041	3.4	22
183	Fabrication of phase-change Ge2Sb2Te5 nano-rings. *Optics Express*, **2011**, 19, 12652-7	3.3	21
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179	Sulfonation of graphene nanosheet-supported platinum via a simple thermal-treatment toward its oxygen reduction activity in acid medium. *International Journal of Hydrogen Energy*, **2012**, 37, 14205-14210	6.7	19
178	Fabrication of three-dimensional plasmonic cavity by femtosecond laser-induced forward transfer. *Optics Express*, **2013**, 21, 618-25	3.3	19
177	Pure angular momentum generator using a ring resonator. *Optics Express*, **2010**, 18, 21651-62	3.3	19
176	Application of surface polariton coupling between nano recording marks to optical data storage. *Optics Express*, **2008**, 16, 13885-92	3.3	19
175	Varifocal Metalens for Optical Sectioning Fluorescence Microscopy. *Nano Letters*, **2021**, 21, 5133-5142	11.5	19
174	Pulse generation scheme for flying electromagnetic doughnuts. *Physical Review B*, **2018**, 97,	3.3	19
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169	Resonance Switchable Metamaterials Using MEMS Fabrications. *IEEE Journal of Selected Topics in Quantum Electronics*, **2013**, 19, 4700306-4700306	3.8	17
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167	Spoof plasmon waveguide enabled ultrathin room temperature THz GaN quantum cascade laser: a feasibility study. *Optics Express*, **2013**, 21, 28054-61	3.3	17
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