

Giuseppe Strangi

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

2,668
citations

201674

27
h-index

189892

50
g-index

83
all docs

83
docs citations

83
times ranked

2919
citing authors

#	ARTICLE	IF	CITATIONS
1	Extreme sensitivity biosensing platform based on hyperbolic metamaterials. <i>Nature Materials</i> , 2016, 15, 621-627.	27.5	609
2	Negative refraction in graphene-based hyperbolic metamaterials. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	135
3	Experimental demonstration of surface and bulk plasmon polaritons in hypergratings. <i>Scientific Reports</i> , 2013, 3, 3291.	3.3	105
4	Color-Tunable Organic Microcavity Laser Array Using Distributed Feedback. <i>Physical Review Letters</i> , 2005, 94, 063903.	7.8	97
5	Large spontaneous emission rate enhancement in grating coupled hyperbolic metamaterials. <i>Scientific Reports</i> , 2014, 4, 6340.	3.3	80
6	A multiband perfect absorber based on hyperbolic metamaterials. <i>Scientific Reports</i> , 2016, 6, 26272.	3.3	77
7	Phase-Change-Material-Based Low-Loss Visible-Frequency Hyperbolic Metamaterials for Ultrasensitive Label-Free Biosensing. <i>Advanced Optical Materials</i> , 2019, 7, 1900081.	7.3	74
8	Enhancing the Angular Sensitivity of Plasmonic Sensors Using Hyperbolic Metamaterials. <i>Advanced Optical Materials</i> , 2016, 4, 1767-1772.	7.3	69
9	Dispersed and Encapsulated Gain Medium in Plasmonic Nanoparticles: a Multipronged Approach to Mitigate Optical Losses. <i>ACS Nano</i> , 2011, 5, 5823-5829.	14.6	66
10	Optical properties of metasurfaces infiltrated with liquid crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20390-20396.	7.1	66
11	Hyperbolic Meta-Antennas Enable Full Control of Scattering and Absorption of Light. <i>Nano Letters</i> , 2019, 19, 1851-1859.	9.1	62
12	Short pitch cholesteric electro-optical device based on periodic polymer structures. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	60
13	Biomolecular Sensing at the Interface between Chiral Metasurfaces and Hyperbolic Metamaterials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30181-30188.	8.0	55
14	Dielectric singularity in hyperbolic metamaterials: the inversion point of coexisting anisotropies. <i>Scientific Reports</i> , 2016, 6, 20002.	3.3	54
15	Beaming random lasers with soliton control. <i>Nature Communications</i> , 2018, 9, 3863.	12.8	54
16	Fano-resonant ultrathin film optical coatings. <i>Nature Nanotechnology</i> , 2021, 16, 440-446.	31.5	51
17	Hyperbolic dispersion metasurfaces for molecular biosensing. <i>Nanophotonics</i> , 2020, 10, 295-314.	6.0	48
18	Gain induced optical transparency in metamaterials. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	45

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19	Directional spontaneous emission enhancement in hyperbolic metamaterials. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	44
20	Chirality in Light-Matter Interaction. <i>Advanced Materials</i> , 2023, 35, e2107325.	21.0	43
21	Generalized Brewster Angle Effect in Thin-Film Optical Absorbers and Its Application for Graphene Hydrogen Sensing. <i>ACS Photonics</i> , 2019, 6, 1610-1617.	6.6	42
22	Hyperbolic metamaterials-based plasmonic biosensor for fluid biopsy with single molecule sensitivity. <i>EPJ Applied Metamaterials</i> , 2017, 4, 1.	1.5	39
23	Universal soft matter template for photonic applications. <i>Soft Matter</i> , 2011, 7, 3739.	2.7	37
24	Plasmon-mediated cancer phototherapy: the combined effect of thermal and photodynamic processes. <i>Nanoscale</i> , 2017, 9, 19279-19289.	5.6	33
25	Double strong exciton-plasmon coupling in gold nanoshells infiltrated with fluorophores. <i>Applied Physics Letters</i> , 2014, 104, 103103.	3.3	30
26	Loss-Mitigated Collective Resonances in Gain-Assisted Plasmonic Mesocapsules. <i>ACS Photonics</i> , 2014, 1, 371-376.	6.6	29
27	Gain functionalized core-shell nanoparticles: the way to selectively compensate absorptive losses. <i>Journal of Materials Chemistry</i> , 2012, 22, 8846.	6.7	28
28	Excitation of volume plasmon polaritons in metal-dielectric metamaterials using 1D and 2D diffraction gratings. <i>Journal of Optics (United Kingdom)</i> , 2014, 16, 105103.	2.2	28
29	Plasmon-Exciton Resonant Energy Transfer: Across Scales Hybrid Systems. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-21.	2.7	27
30	Designer Perfect Light Absorption Using Ultrathin Lossless Dielectrics on Absorptive Substrates. <i>Advanced Optical Materials</i> , 2018, 6, 1800672.	7.3	26
31	Magneto-Optical Activity in Nonmagnetic Hyperbolic Nanoparticles. <i>Physical Review Letters</i> , 2021, 127, 217402.	7.8	26
32	Iridescence-free and narrowband perfect light absorption in critically coupled metal high-index dielectric cavities. <i>Optics Letters</i> , 2017, 42, 3598.	3.3	25
33	Hydrogen Sensing Using Thin-Film Perfect Light Absorber. <i>ACS Photonics</i> , 2019, 6, 1889-1894.	6.6	25
34	Large-Area Silver-Stibnite Nanoporous Plasmonic Films for Label-Free Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34991-34999.	8.0	24
35	Electron Energy Loss Spectroscopy of Bright and Dark Modes in Hyperbolic Metamaterial Nanostructures. <i>Advanced Optical Materials</i> , 2020, 8, 2000277.	7.3	23
36	General Inverse Design of Layered Thin-Film Materials with Convolutional Neural Networks. <i>ACS Photonics</i> , 2021, 8, 3641-3650.	6.6	23

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37	Tunable Black Gold: Controlling the Near-Field Coupling of Immobilized Au Nanoparticles Embedded in Mesoporous Silica Capsules. <i>Advanced Optical Materials</i> , 2017, 5, 1700617.	7.3	20
38	Designer Bloch plasmon polariton dispersion in grating-coupled hyperbolic metamaterials. <i>APL Photonics</i> , 2020, 5, 076109.	5.7	20
39	Optical and electrical characterization of a gold nanoparticle dispersion in a chiral liquid crystal matrix. <i>Journal of Materials Science</i> , 2014, 49, 1805-1811.	3.7	19
40	Liquid-crystal-electrochromic-material interface: An-like electro-optic junction. <i>Physical Review E</i> , 2001, 64, 011708.	2.1	17
41	Changes of the electro-optic response of nematic liquid crystal cells due to inserted titania-vanadia films. <i>Journal of Applied Physics</i> , 2005, 97, 013523.	2.5	16
42	Ultrafast transient optical loss dynamics in exciton-plasmon nano-assemblies. <i>Nanoscale</i> , 2017, 9, 6558-6566.	5.6	15
43	Asymmetric nematic liquid crystal cells containing lead zirconium titanate (PZT) films. <i>Journal of Applied Physics</i> , 2007, 102, 013112.	2.5	13
44	Plasmon mediated super-absorber flexible nanocomposites for metamaterials. <i>Nanoscale</i> , 2013, 5, 6097.	5.6	13
45	Battling absorptive losses by plasmon-exciton coupling in multimeric nanostructures. <i>RSC Advances</i> , 2015, 5, 53245-53254.	3.6	12
46	Photonics and plasmonics go viral: self-assembly of hierarchical metamaterials. <i>Rendiconti Lincei</i> , 2015, 26, 129-141.	2.2	12
47	Gain-assisted plasmonic metamaterials: mimicking nature to go across scales. <i>Rendiconti Lincei</i> , 2015, 26, 161-174.	2.2	12
48	Cooperative Energy Transfer Controls the Spontaneous Emission Rate Beyond Field Enhancement Limits. <i>Physical Review Letters</i> , 2019, 122, 203901.	7.8	12
49	Characterization of Tungsten Trioxide Thin Film Deposited by Spin Coating and the Effect on Their Insertion in Liquid Crystal Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 429, 237-253.	0.9	11
50	Morphological and electrical investigations of lead zirconium titanate thin films obtained by sol-gel synthesis on indium tin oxide electrodes. <i>Journal of Applied Physics</i> , 2008, 103, 064103.	2.5	11
51	Hydrogen gas sensing using aluminum doped ZnO metasurfaces. <i>Nanoscale Advances</i> , 2020, 2, 3452-3459.	4.6	11
52	Heat-induced perfect light absorption in thin-film metasurfaces for structural coloring [Invited]. <i>Optical Materials Express</i> , 2019, 9, 1386.	3.0	11
53	Effects of Gold Nanoparticle Dispersion in a Chiral Liquid Crystal Matrix. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 572, 59-65.	0.9	10
54	Asymmetric Response to Electric Field in Nematic Liquid Crystal Cells Containing Vanadium Oxide Thin Films Prepared by Sol-Gel Synthesis. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 441, 27-43.	0.9	9

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55	Iridium(III) Complex-Loaded Perfluoropropane Nanobubbles for Enhanced Sonodynamic Therapy. <i>Bioconjugate Chemistry</i> , 2022, 33, 1057-1068.	3.6	7
56	Manipulating acoustic and plasmonic modes in gold nanostars. <i>Nanoscale Advances</i> , 2019, 1, 2690-2698.	4.6	6
57	Ultrathin-film optical coating for angle-independent remote hydrogen sensing. <i>Measurement Science and Technology</i> , 2020, 31, 115201.	2.6	6
58	Thermally induced modifications of the optic properties of lead zirconate titanate thin films obtained on different substrates by sol-gel synthesis. <i>Journal of Applied Physics</i> , 2008, 104, 123522.	2.5	5
59	Hyperbolic dispersion metamaterials and metasurfaces. <i>EPJ Applied Metamaterials</i> , 2020, 7, 11.	1.5	5
60	Broadband optical transparency in plasmonic nanocomposite polymer films via exciton-plasmon energy transfer. <i>Optics Express</i> , 2016, 24, 14632.	3.4	4
61	Model for Light Scattering and Lasing in Dye-Doped Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 488, 317-326.	0.9	3
62	The influence of drying temperature on the close packed structure of silanized monolayers deposited on indium tin oxide (ITO) substrates. <i>Journal of Materials Research</i> , 2009, 24, 2784-2794.	2.6	3
63	Fast Electro-Optical Device Based on Chiral Liquid Crystals Encapsulated in Periodic Polymer Channels. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 525, 41-49.	0.9	3
64	Improved transmittance in metal-dielectric metamaterials using diffraction grating. <i>Applied Physics Letters</i> , 2014, 104, 171904.	3.3	3
65	Heterodimeric Plasmonic Nanogaps for Biosensing. <i>Micromachines</i> , 2018, 9, 664.	2.9	2
66	The POLICRYPS liquid-crystalline structure for optical applications. <i>Advanced Optical Technologies</i> , 2018, 7, 273-289.	1.7	2
67	Electro-optical response due to mixed conduction electrodes, compared to ferroelectric ones, in asymmetric nematic liquid crystal cells. <i>Ionics</i> , 2009, 15, 139-149.	2.4	1
68	General Purpose Soft Template for Photonic Applications: From All-Optical to Electrical Reconfigurability. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 553, 147-152.	0.9	1
69	From Life to Life: through new materials and plasmonics. <i>Rendiconti Lincei</i> , 2015, 26, 127-128.	2.2	1
70	Thermoplasmonic-biosensing demonstration based on the photothermal response of metallic nanoparticles. <i>Journal of Applied Physics</i> , 2020, 128, 164302.	2.5	1
71	Compressed and canalized emission of quantum emitters in MIM nano-cavities. <i>Quantum Studies: Mathematics and Foundations</i> , 2020, 7, 355-361.	0.9	1
72	Hybrid Nanoparticles as Theranostics Platforms for Glioblastoma Treatment: Phototherapeutic and X-ray Phase Contrast Tomography Investigations. <i>Journal of Nanotheranostics</i> , 2022, 3, 1-17.	3.1	1

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73	A Luminescent, Water-Soluble Ir(III) Complex as a Potential Photosensitizer for Two-Photon Photodynamic Therapy. Applied Sciences (Switzerland), 2021, 11, 11596.	2.5	1
74	Anomalous conductivity in PZT thin film deposited on copper substrate electrode. Philosophical Magazine, 2010, 90, 1733-1742.	1.6	0
75	Statistical analyses of repolarisation current of a PZT film deposited on ITO electrode with different thermal treatments. Philosophical Magazine, 2010, 90, 1575-1584.	1.6	0
76	Perfect Light Absorption in Thin and Ultra-Thin Films and Its Applications. Progress in Optical Science and Photonics, 2019, , 3-27.	0.5	0
77	Tunable magneto-optics in hyperbolic nanoparticles. , 2021, , .		0
78	Biomolecular Sensing in Hybrid Chiral/Hyperbolic Metastructures. , 2021, , 1-14.		0
79	Random Lasing Control with Optical Spatial Solitons in Nematic Liquid Crystals. , 2019, , .		0
80	Magneto-optics in type-II hyperbolic metamaterial nanoantennas. , 2021, , .		0