

Concetta Sibia

List of Publications by Year in descending order

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48
papers

1,672
citations

394421

19
h-index

289244

40
g-index

48
all docs

48
docs citations

48
times ranked

2088
citing authors

#	ARTICLE	IF	CITATIONS
1	Chirality and Chiroptical Effects in Plasmonic Nanostructures: Fundamentals, Recent Progress, and Outlook. <i>Advanced Materials</i> , 2013, 25, 2517-2534.	21.0	591
2	Circular Dichroism in the Optical Second-Harmonic Emission of Curved Gold Metal Nanowires. <i>Physical Review Letters</i> , 2011, 107, 257401.	7.8	98
3	On the photodeflection method applied to low thermal diffusivity measurements. <i>Review of Scientific Instruments</i> , 1993, 64, 1576-1583.	1.3	74
4	Optimization of thermochromic VO ₂ based structures with tunable thermal emissivity. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	64
5	Chiral light intrinsically couples to extrinsic/pseudo-chiral metasurfaces made of tilted gold nanowires. <i>Scientific Reports</i> , 2016, 6, 31796.	3.3	54
6	Anomalous optical switching and thermal hysteresis during semiconductor-metal phase transition of VO ₂ films on Si substrate. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	49
7	Second Harmonic Generation Circular Dichroism from Self-Ordered Hybrid Plasmonic-Photonic Nanosurfaces. <i>Advanced Optical Materials</i> , 2014, 2, 208-213.	7.3	46
8	Electronic Properties of a Functionalized Noble Metal Nanoparticles Covalent Network. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18110-18119.	3.1	44
9	Analysis of the photothermal deflection technique in the surface reflection scheme: Theory and experiment. <i>Journal of Applied Physics</i> , 1998, 83, 966-982.	2.5	41
10	Correlation between <i>in situ</i> structural and optical characterization of the semiconductor-to-metal phase transition of VO ₂ thin films on sapphire. <i>Nanoscale</i> , 2020, 12, 851-863.	5.6	40
11	Evidence of Optical Circular Dichroism in GaAs-Based Nanowires Partially Covered with Gold. <i>Advanced Optical Materials</i> , 2017, 5, 1601063.	7.3	35
12	Photo-acoustic spectroscopy revealing resonant absorption of self-assembled GaAs-based nanowires. <i>Scientific Reports</i> , 2017, 7, 2833.	3.3	31
13	Photo-acoustic detection of chirality in metal-polystyrene metasurfaces. <i>Applied Physics Letters</i> , 2019, 114, 053101.	3.3	31
14	New photothermal deflection method for thermal diffusivity measurement of semiconductor wafers. <i>Review of Scientific Instruments</i> , 1997, 68, 1521-1526.	1.3	30
15	Study of thermal and optical properties of SiO ₂ /GaN opals by photothermal deflection technique. <i>Optical and Quantum Electronics</i> , 2007, 39, 305-310.	3.3	28
16	Electron microscopy reveals a soluble hybrid network of individual nanocrystals self-anchored by bifunctional thiol fluorescent bridges. <i>Nanoscale</i> , 2016, 8, 18161-18169.	5.6	26
17	Extended Chiro-optical Near-Field Response of Achiral Plasmonic Lattices. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23620-23627.	3.1	26
18	Photoacoustic Spectroscopy Investigation of Zinc Oxide/Diatom Frustules Hybrid Powders. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	2.1	25

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19	Chiral near-field manipulation in Au-GaAs hybrid hexagonal nanowires. <i>Optics Express</i> , 2017, 25, 14148.	3.4	22
20	Demonstration of extrinsic chirality of photoluminescence with semiconductor-metal hybrid nanowires. <i>Scientific Reports</i> , 2019, 9, 5040.	3.3	21
21	Circular Dichroism in Low-Cost Plasmonics: 2D Arrays of Nanoholes in Silver. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1316.	2.5	21
22	Quantitative evaluation of emission properties and thermal hysteresis in the mid-infrared for a single thin film of vanadium dioxide on a silicon substrate. <i>International Journal of Thermal Sciences</i> , 2019, 146, 106061.	4.9	19
23	Chiral effects in low-cost plasmonic arrays of elliptic nanoholes. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	17
24	Self-Assembled Silver-Germanium Nanolayer Metamaterial with the Enhanced Nonlinear Response. <i>Advanced Optical Materials</i> , 2017, 5, 1700753.	7.3	16
25	Rich Near-Infrared Chiral Behavior in Diffractive Metasurfaces. <i>Physical Review Applied</i> , 2021, 16, .	3.8	16
26	Diffracted Beams from Metasurfaces: High Chiral Detectivity by Photothermal Deflection Technique. <i>Advanced Optical Materials</i> , 2021, 9, 2100670.	7.3	16
27	Photoacoustic technique for the characterization of plasmonic properties of 2D periodic arrays of gold nanoholes. <i>AIP Advances</i> , 2017, 7, 025210.	1.3	14
28	Resonant Absorption in GaAs-Based Nanowires by Means of Photo-Acoustic Spectroscopy. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	2.1	14
29	Photo-Acoustic Spectroscopy Reveals Extrinsic Optical Chirality in GaAs-Based Nanowires Partially Covered with Gold. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	2.1	14
30	An experimental and theoretical analysis of the temperature profile in semiconductor laser diodes using the photodeflection technique. <i>Measurement Science and Technology</i> , 1995, 6, 1278-1290.	2.6	13
31	Photothermal Characterization of Thermochromic Materials for Tunable Thermal Devices. <i>International Journal of Thermophysics</i> , 2015, 36, 1004-1015.	2.1	13
32	Long-wave infrared emissivity characterization of vanadium dioxide-based multilayer structure on silicon substrate by temperature-dependent radiometric measurements. <i>Infrared Physics and Technology</i> , 2018, 93, 112-115.	2.9	13
33	Photoacoustics for listening to metal nanoparticle super-aggregates. <i>Nanoscale Advances</i> , 2021, 3, 4692-4701.	4.6	13
34	Numerical tailoring of linear response from plasmonic nano-resonators grown on a layer of polystyrene spheres. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	12
35	Control of Au nanoantenna emission enhancement of magnetic dipolar emitters by means of VO ₂ phase change layers. <i>Optics Express</i> , 2019, 27, 24260.	3.4	12
36	Enhanced Near-Field Chirality in Periodic Arrays of Si Nanowires for Chiral Sensing. <i>Molecules</i> , 2019, 24, 853.	3.8	10

#	ARTICLE	IF	CITATIONS
37	Study of the interaction mechanism between hydrophilic thiol capped gold nanoparticles and melamine in aqueous medium. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 203, 111727.	5.0	9
38	Circular Dichroism in the Second Harmonic Field Evidenced by Asymmetric Au Coated GaAs Nanowires. <i>Micromachines</i> , 2020, 11, 225.	2.9	8
39	Thin films of phase change materials for light control of metamaterials in the optical and infrared spectral domain. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	8
40	Broadband optical spin dependent reflection in self-assembled GaAs-based nanowires asymmetrically hybridized with Au. <i>Scientific Reports</i> , 2021, 11, 4316.	3.3	8
41	Extrinsic Chirality and Circular Dichroism at Visible Frequencies Enabled by Birefringent $\text{I}\pm\text{-MoO}_3$ Nanoscale-Thick Films: Implications for Chiro-Optical Control. <i>ACS Applied Nano Materials</i> , 2022, 5, 5609-5616.	5.0	7
42	Plasmonic Elliptical Nanohole Arrays for Chiral Absorption and Emission in the Near-Infrared and Visible Range. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6012.	2.5	6
43	Nanostructured materials for circular dichroism and chirality at the nanoscale: towards unconventional characterization. <i>Optical Materials Express</i> , 0, , .	3.0	6
44	Titanium and Silicon Dioxide-Coated Fabrics for Management and Tuning of Infrared Radiation. <i>Sensors</i> , 2022, 22, 3918.	3.8	5
45	Characterization of Chirality in Diffractive Metasurfaces by Photothermal Deflection Technique. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1109.	2.5	4
46	Thermal characterization by photodeflection method. <i>Journal of Theoretical Biology</i> , 1996, 47, 51-65.	1.7	2
47	Photo-deflection technique for characterization of chirality in diffractive metasurfaces. , 2021, , .		0
48	Rich Broadband Chiral Behavior in Low-cost Plasmonic Nanostructures. , 2021, , .		0