Stefano Lupi

List of Publications by Year
in descending order

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70 papers	2,148 citations	218677 26 h-index	233421 45 g-index
71 all docs	71 docs citations	71 times ranked	3129 citing authors

#	Article	IF	Citations
1	Terahertz Spectroscopic Analysis in Protein Dynamics: Current Status. Radiation, 2022, 2, 100-123.	1.4	21
2	Oxygenâ€Driven Metalâ€“Insulator Transition in SrNbO₃ Thin Films Probed by Infrared Spectroscopy. Advanced Electronic Materials, 2022, 8, .	5.1	6
3	Infrared plasmons in ultrahigh conductive PdCoO2 metallic oxide. Communications Physics, 2022, 5, .	5.3	3
4	Structural anisotropy in three dimensional macroporous graphene: A polarized XANES investigation. Diamond and Related Materials, 2021, 111, 108171.	3.9	7
5	Detection of volatile organic compounds: From chemical gas sensors to terahertz spectroscopy. Reviews in Analytical Chemistry, 2021, 40, 33-57.	3.2	37
6	Optical Properties of Stanene-like Nanosheets on Al₂O₃(0001): Implications for Xene Photonics. ACS Applied Nano Materials, 2021, 4, 2351-2356.	5.0	7
7	Virus recognition with terahertz radiation: drawbacks and potentialities. JPhys Photonics, 2021, 3, 032001.	4.6	13
8	Terahertz as a Frontier Area for Science and Technology. Condensed Matter, 2021, 6, 23.	1.8	7
9	Customâ€Built Graphene Acousticâ€Absorbing Aerogel for Audio Signal Recognition. Advanced Materials Interfaces, 2021, 8, 2100227.	3.7	2
10	Performance Evaluation of a THz Pulsed Imaging System: Point Spread Function, Broadband THz Beam Visualization and Image Reconstruction. Applied Sciences (Switzerland), 2021, 11, 562.	2.5	19
11	Disordered photonics behavior from terahertz to ultraviolet of a three-dimensional graphene network. NPG Asia Materials, 2021, 13, .	7.9	10
12	Low energy electrodynamics of CrI3 layered ferromagnet. Scientific Reports, 2021, 11, 23405.	3.3	12
13	Experimental signature of a topological quantum dot. Nanoscale, 2020, 12, 22817-22825.	5.6	15
14	Broadband Anisotropic Optical Properties of the Terahertz Generator HMQ-TMS Organic Crystal. Condensed Matter, 2020, 5, 47.	1.8	15
15	Graphene Aerogels for Ultrabroadband Thermoacoustics. Physical Review Applied, 2020, 14, .	3.8	2
16	A novel approach for green synthesis of WO₃ nanomaterials and their highly selective chemical sensing properties. Journal of Materials Chemistry A, 2020, 8, 20373-20385.	10.3	35
17	Fabrication and spectroscopic characterization of graphene transparent electrodes on flexible cyclo-olefin substrates for terahertz electro-optic applications. Nanotechnology, 2020, 31, 364006.	2.6	15
18	Terahertz Tuning of Dirac Plasmons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mrow><mml:mi>Se</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:mrow></mml:math> Topological Insulator. Physical Review Letters, 2020, 124, 226403.	7.8	27

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19	Proximity Array Device: A Novel Photon Detector Working in Long Wavelengths. Condensed Matter, 2020, 5, 33.	1.8	10
20	Emerging Dirac materials for THz plasmonics. Applied Materials Today, 2020, 20, 100732.	4.3	14
21	Spatially Resolved Spectral Imaging by A THz-FEL. Condensed Matter, 2020, 5, 38.	1.8	5
22	THz Pulsed Imaging in Biomedical Applications. Condensed Matter, 2020, 5, 25.	1.8	70
23	Retarding Ostwald Ripening to Directly Cast 3D Porous Graphene Oxide Bulks at Open Ambient Conditions. ACS Nano, 2020, 14, 6249-6257.	14.6	37
24	Angular Dependence of Copper Surface Damage Induced by an Intense Coherent THz Radiation Beam. Condensed Matter, 2020, 5, 16.	1.8	4
25	Tunable Vortex Dynamics in Proximity Junction Arrays: A Possible Accurate and Sensitive 2D THz Detector. Acta Physica Polonica A, 2020, 137, 17-20.	0.5	7
26	Characterization of volatile organic compounds (VOCs) in their liquid-phase by terahertz time-domain spectroscopy. Biomedical Optics Express, 2020, 11, 1.	2.9	16
27	Ultimate Photo-Thermo-Acoustic Efficiency of Graphene Aerogels. Scientific Reports, 2019, 9, 13386.	3.3	11
28	Overcoming the thermal regime for the electric-field driven Mott transition in vanadium sesquioxide. Nature Communications, 2019, 10, 1159.	12.8	32
29	MoO3 films grown on polycrystalline Cu: Morphological, structural, and electronic properties. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	2.1	15
30	Hydrogen Bonding Features in Cholinium-Based Protic Ionic Liquids from Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2018, 122, 2635-2645.	2.6	36
31	Optical Conductivity of Two-Dimensional Silicon: Evidence of Dirac Electrodynamics. Nano Letters, 2018, 18, 7124-7132.	9.1	34
32	Mid-Infrared Plasmonic Excitation in Indium Tin Oxide Microhole Arrays. ACS Photonics, 2018, 5, 2431-2436.	6.6	22
33	Highâ€Efficiency and Low Distortion Photoacoustic Effect in 3D Graphene Sponge. Advanced Functional Materials, 2018, 28, 1702652.	14.9	35
34	Pressure effects on Î±-synuclein amyloid fibrils: An experimental investigation on their dissociation and reversible nature. Archives of Biochemistry and Biophysics, 2017, 627, 46-55.	3.0	11
35	Terahertz plasmonic excitations in Bi₂Se₃topological insulator. Journal of Physics Condensed Matter, 2017, 29, 183002.	1.8	19
36	Terahertz and mid-infrared plasmons in three-dimensional nanoporous graphene. Nature Communications, 2017, 8, 14885.	12.8	58

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37	High-Pressure-Driven Reversible Dissociation of Î±-Synuclein Fibrils Reveals Structural Hierarchy. Biophysical Journal, 2017, 113, 1685-1696.	0.5	16
38	Two-Dimensional Hallmark of Highly Interconnected Three-Dimensional Nanoporous Graphene. ACS Omega, 2017, 2, 3691-3697.	3.5	32
39	TeraFERMI: A Superradiant Beamline for THz Nonlinear Studies at the FERMI Free Electron Laser Facility. Synchrotron Radiation News, 2017, 30, 36-39.	0.8	12
40	Photo-acoustic converter for THz detection based on 3-dimensional graphene. , 2017, , .		0
41	Photoinduced terahertz dynamics in BizSes topological insulator. , 2017, , .		0
42	Strong nonlinear terahertz response induced by Dirac surface states in Bi2Se3 topological insulator. Nature Communications, 2016, 7, 11421.	12.8	124
43	Topologically protected Dirac plasmons and their evolution across the quantum phase transition in a (Bi_{1âˆ’x}In_x)₂Se₃topological insulator. Nanoscale, 2016, 8, 4667-4671.	5.6	13
44	Terahertz and Infrared Plasmonics with Unconventional Materials. , 2016, , 4057-4070.		0
45	Interaction and dynamics of ionic liquids based on choline and amino acid anions. Journal of Chemical Physics, 2015, 142, 234502.	3.0	47
46	Plasmonâ€“Phonon Interactions in Topological Insulator Microrings. Advanced Optical Materials, 2015, 3, 1257-1263.	7.3	72
47	Observation of Magnetoplasmons in Bi₂Se₃ Topological Insulator. ACS Photonics, 2015, 2, 1231-1235.	6.6	48
48	Resonating Terahertz Response of Periodic Arrays of Subwavelength Apertures. Plasmonics, 2015, 10, 45-50.	3.4	19
49	Squeezing Terahertz Light into Nanovolumes: Nanoantenna Enhanced Terahertz Spectroscopy (NETS) of Semiconductor Quantum Dots. Nano Letters, 2015, 15, 386-391.	9.1	86
50	Terahertz plasmonic excitations in Bi<inf>2</inf>Se<inf>3</inf> topological insulator. , 2014, , .		0
51	Superconductivity-Induced Transparency in Terahertz Metamaterials. ACS Photonics, 2014, 1, 570-575.	6.6	47
52	Optical Properties of a Vibrationally Modulated Solid State Mott Insulator. Scientific Reports, 2014, 4, 3823.	3.3	40
53	Observation of Dirac plasmons in a topological insulator. Nature Nanotechnology, 2013, 8, 556-560.	31.5	332
54	The TeraFERMI terahertz source at the seeded FERMI free-electron-laser facility. Review of Scientific Instruments, 2013, 84, 022702.	1.3	39

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55	Field distribution and quality factor of surface plasmon resonances of metal meshes for mid-infrared sensing. Plasmonics, 2013, 8, 851-858.	3.4	10
56	Mid-Infrared Surface Plasmon Polariton Sensors Resonant with the Vibrational Modes of Phospholipid Layers. Journal of Physical Chemistry C, 2013, 117, 19119-19126.	3.1	22
57	The SPARC linear accelerator based terahertz source. Applied Physics Letters, 2013, 102, .	3.3	57
58	Characterization of the THz radiation source at the Frascati linear accelerator. Review of Scientific Instruments, 2013, 84, 022703.	1.3	57
59	Dark and bright surface plasmon resonances of metal meshes for mid-infrared sensing at the nanoscale. , 2012, , .		0
60	Optical conductivity of bismuth-based topological insulators. Physical Review B, 2012, 86, .	3.2	92
61	Structureâ€“activity relationships of Candida rugosa lipase immobilized on polylactic acid nanoparticles. Soft Matter, 2011, 7, 2653.	2.7	56
62	Terahertz Spectroscopy of Novel Superconductors. Advances in Condensed Matter Physics, 2011, 2011, 1-9.	1.1	6
63	Substrateless micrometric metal mesh for mid-infrared plasmonic sensors. Applied Physics A: Materials Science and Processing, 2011, 103, 627-630.	2.3	7
64	Scaling the spectral response of metamaterial dipolar filters in the terahertz. Optics Communications, 2011, 284, 1690-1693.	2.1	9
65	Midinfrared surface plasmon sensor based on a substrateless metal mesh. Applied Physics Letters, 2011, 98, 091902.	3.3	30
66	Production of high power terahertz radiation through the SPARC Free-Electron Laser. , 2010, , .		0
67	Performance of SISSI, the infrared beamline of the ELETTRA storage ring. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 959.	2.1	121
68	An infrared study of the superconducting diamond. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 2945-2949.	1.8	1
69	Low-Energy Electrodynamics of Superconducting Diamond. Physical Review Letters, 2006, 97, 097002.	7.8	55
70	The synchrotron infrared beamline SISSI at ELETTRA. Infrared Physics and Technology, 2004, 45, 375-381.	2.9	9