

# 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	Observation of Dirac plasmons in a topological insulator. <i>Nature Nanotechnology</i> , 2013, 8, 556-560.	31.5	332
2	Strong nonlinear terahertz response induced by Dirac surface states in Bi <sub>2</sub> Se <sub>3</sub> topological insulator. <i>Nature Communications</i> , 2016, 7, 11421.	12.8	124
3	Performance of SISSI, the infrared beamline of the ELETTRA storage ring. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 959.	2.1	121
4	Optical conductivity of bismuth-based topological insulators. <i>Physical Review B</i> , 2012, 86, .	3.2	92
5	Squeezing Terahertz Light into Nanovolumes: Nanoantenna Enhanced Terahertz Spectroscopy (NETS) of Semiconductor Quantum Dots. <i>Nano Letters</i> , 2015, 15, 386-391.	9.1	86
6	Plasmon-Phonon Interactions in Topological Insulator Microrings. <i>Advanced Optical Materials</i> , 2015, 3, 1257-1263.	7.3	72
7	THz Pulsed Imaging in Biomedical Applications. <i>Condensed Matter</i> , 2020, 5, 25.	1.8	70
8	Terahertz and mid-infrared plasmons in three-dimensional nanoporous graphene. <i>Nature Communications</i> , 2017, 8, 14885.	12.8	58
9	The SPARC linear accelerator based terahertz source. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	57
10	Characterization of the THz radiation source at the Frascati linear accelerator. <i>Review of Scientific Instruments</i> , 2013, 84, 022703.	1.3	57
11	Structure-activity relationships of <i>Candida rugosa</i> lipase immobilized on polylactic acid nanoparticles. <i>Soft Matter</i> , 2011, 7, 2653.	2.7	56
12	Low-Energy Electrodynamics of Superconducting Diamond. <i>Physical Review Letters</i> , 2006, 97, 097002.	7.8	55
13	Observation of Magnetoplasmons in Bi <sub>2</sub> Se <sub>3</sub> Topological Insulator. <i>ACS Photonics</i> , 2015, 2, 1231-1235.	6.6	48
14	Superconductivity-Induced Transparency in Terahertz Metamaterials. <i>ACS Photonics</i> , 2014, 1, 570-575.	6.6	47
15	Interaction and dynamics of ionic liquids based on choline and amino acid anions. <i>Journal of Chemical Physics</i> , 2015, 142, 234502.	3.0	47
16	Optical Properties of a Vibrationally Modulated Solid State Mott Insulator. <i>Scientific Reports</i> , 2014, 4, 3823.	3.3	40
17	The TeraFERMI terahertz source at the seeded FERMI free-electron-laser facility. <i>Review of Scientific Instruments</i> , 2013, 84, 022702.	1.3	39
18	Retarding Ostwald Ripening to Directly Cast 3D Porous Graphene Oxide Bulks at Open Ambient Conditions. <i>ACS Nano</i> , 2020, 14, 6249-6257.	14.6	37

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19	Detection of volatile organic compounds: From chemical gas sensors to terahertz spectroscopy. <i>Reviews in Analytical Chemistry</i> , 2021, 40, 33-57.	3.2	37
20	Hydrogen Bonding Features in Cholinium-Based Protic Ionic Liquids from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2635-2645.	2.6	36
21	A novel approach for green synthesis of WO <sub>3</sub> nanomaterials and their highly selective chemical sensing properties. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20373-20385.	10.3	35
22	High Efficiency and Low Distortion Photoacoustic Effect in 3D Graphene Sponge. <i>Advanced Functional Materials</i> , 2018, 28, 1702652.	14.9	35
23	Optical Conductivity of Two-Dimensional Silicon: Evidence of Dirac Electrodynamics. <i>Nano Letters</i> , 2018, 18, 7124-7132.	9.1	34
24	Two-Dimensional Hallmark of Highly Interconnected Three-Dimensional Nanoporous Graphene. <i>ACS Omega</i> , 2017, 2, 3691-3697.	3.5	32
25	Overcoming the thermal regime for the electric-field driven Mott transition in vanadium sesquioxide. <i>Nature Communications</i> , 2019, 10, 1159.	12.8	32
26	Midinfrared surface plasmon sensor based on a substrateless metal mesh. <i>Applied Physics Letters</i> , 2011, 98, 091902.	3.3	30
27	Terahertz Tuning of Dirac Plasmons in $\text{Bi}_2\text{Se}_3$ Topological Insulator. <i>Physical Review Letters</i> , 2020, 124, 226403.		
28	Mid-Infrared Surface Plasmon Polariton Sensors Resonant with the Vibrational Modes of Phospholipid Layers. <i>Journal of Physical Chemistry C</i> , 2013, 117, 19119-19126.	3.1	22
29	Mid-Infrared Plasmonic Excitation in Indium Tin Oxide Microhole Arrays. <i>ACS Photonics</i> , 2018, 5, 2431-2436.	6.6	22
30	Terahertz Spectroscopic Analysis in Protein Dynamics: Current Status. <i>Radiation</i> , 2022, 2, 100-123.	1.4	21
31	Resonating Terahertz Response of Periodic Arrays of Subwavelength Apertures. <i>Plasmonics</i> , 2015, 10, 45-50.	3.4	19
32	Terahertz plasmonic excitations in $\text{Bi}_2\text{Se}_3$ topological insulator. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 183002.	1.8	19
33	Performance Evaluation of a THz Pulsed Imaging System: Point Spread Function, Broadband THz Beam Visualization and Image Reconstruction. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 562.	2.5	19
34	High-Pressure-Driven Reversible Dissociation of $\beta$ -Synuclein Fibrils Reveals Structural Hierarchy. <i>Biophysical Journal</i> , 2017, 113, 1685-1696.	0.5	16
35	Characterization of volatile organic compounds (VOCs) in their liquid-phase by terahertz time-domain spectroscopy. <i>Biomedical Optics Express</i> , 2020, 11, 1.	2.9	16
36	MoO <sub>3</sub> films grown on polycrystalline Cu: Morphological, structural, and electronic properties. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	2.1	15

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37	Experimental signature of a topological quantum dot. <i>Nanoscale</i> , 2020, 12, 22817-22825.	5.6	15
38	Broadband Anisotropic Optical Properties of the Terahertz Generator HMQ-TMS Organic Crystal. <i>Condensed Matter</i> , 2020, 5, 47.	1.8	15
39	Fabrication and spectroscopic characterization of graphene transparent electrodes on flexible cyclo-olefin substrates for terahertz electro-optic applications. <i>Nanotechnology</i> , 2020, 31, 364006.	2.6	15
40	Emerging Dirac materials for THz plasmonics. <i>Applied Materials Today</i> , 2020, 20, 100732.	4.3	14
41	Topologically protected Dirac plasmons and their evolution across the quantum phase transition in a $(\text{Bi}_{1-x}\text{In}_x)_2\text{Se}_3$ topological insulator. <i>Nanoscale</i> , 2016, 8, 4667-4671.	5.6	13
42	Virus recognition with terahertz radiation: drawbacks and potentialities. <i>JPhys Photonics</i> , 2021, 3, 032001.	4.6	13
43	TeraFERMI: A Superradiant Beamline for THz Nonlinear Studies at the FERMI Free Electron Laser Facility. <i>Synchrotron Radiation News</i> , 2017, 30, 36-39.	0.8	12
44	Low energy electrodynamics of CrI <sub>3</sub> layered ferromagnet. <i>Scientific Reports</i> , 2021, 11, 23405.	3.3	12
45	Pressure effects on $\beta$ -synuclein amyloid fibrils: An experimental investigation on their dissociation and reversible nature. <i>Archives of Biochemistry and Biophysics</i> , 2017, 627, 46-55.	3.0	11
46	Ultimate Photo-Thermo-Acoustic Efficiency of Graphene Aerogels. <i>Scientific Reports</i> , 2019, 9, 13386.	3.3	11
47	Field distribution and quality factor of surface plasmon resonances of metal meshes for mid-infrared sensing. <i>Plasmonics</i> , 2013, 8, 851-858.	3.4	10
48	Proximity Array Device: A Novel Photon Detector Working in Long Wavelengths. <i>Condensed Matter</i> , 2020, 5, 33.	1.8	10
49	Disordered photonics behavior from terahertz to ultraviolet of a three-dimensional graphene network. <i>NPG Asia Materials</i> , 2021, 13, .	7.9	10
50	The synchrotron infrared beamline SISSI at ELETTRA. <i>Infrared Physics and Technology</i> , 2004, 45, 375-381.	2.9	9
51	Scaling the spectral response of metamaterial dipolar filters in the terahertz. <i>Optics Communications</i> , 2011, 284, 1690-1693.	2.1	9
52	Substrateless micrometric metal mesh for mid-infrared plasmonic sensors. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 103, 627-630.	2.3	7
53	Structural anisotropy in three dimensional macroporous graphene: A polarized XANES investigation. <i>Diamond and Related Materials</i> , 2021, 111, 108171.	3.9	7
54	Optical Properties of Stanene-like Nanosheets on $\text{Al}_2\text{O}_3(0001)$ : Implications for Xene Photonics. <i>ACS Applied Nano Materials</i> , 2021, 4, 2351-2356.	5.0	7

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55	Terahertz as a Frontier Area for Science and Technology. Condensed Matter, 2021, 6, 23.	1.8	7
56	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
57	Terahertz Spectroscopy of Novel Superconductors. Advances in Condensed Matter Physics, 2011, 2011, 1-9.	1.1	6
58	Oxygen-Driven Metal-Insulator Transition in SrNbO <sub>3</sub> Thin Films Probed by Infrared Spectroscopy. Advanced Electronic Materials, 2022, 8, .	5.1	6
59	Spatially Resolved Spectral Imaging by A THz-FEL. Condensed Matter, 2020, 5, 38.	1.8	5
60	Angular Dependence of Copper Surface Damage Induced by an Intense Coherent THz Radiation Beam. Condensed Matter, 2020, 5, 16.	1.8	4
61	Infrared plasmons in ultrahigh conductive PdCoO <sub>2</sub> metallic oxide. Communications Physics, 2022, 5, .	5.3	3
62	Graphene Aerogels for Ultrabroadband Thermoacoustics. Physical Review Applied, 2020, 14, .	3.8	2
63	Custom-Built Graphene Acoustic-Absorbing Aerogel for Audio Signal Recognition. Advanced Materials Interfaces, 2021, 8, 2100227.	3.7	2
64	An infrared study of the superconducting diamond. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 2945-2949.	1.8	1
65	Production of high power terahertz radiation through the SPARC Free-Electron Laser. , 2010, , .		0
66	Dark and bright surface plasmon resonances of metal meshes for mid-infrared sensing at the nanoscale. , 2012, , .		0
67	Terahertz plasmonic excitations in Bi <sub>2</sub> Se <sub>3</sub> topological insulator. , 2014, , .		0
68	Photo-acoustic converter for THz detection based on 3-dimensional graphene. , 2017, , .		0
69	Photoinduced terahertz dynamics in Bi <sub>2</sub> Se <sub>3</sub> topological insulator. , 2017, , .		0
70	Terahertz and Infrared Plasmonics with Unconventional Materials. , 2016, , 4057-4070.		0