

Giancarlo Soavi

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,636
citations

236925

25
h-index

289244

40
g-index

59
all docs

59
docs citations

59
times ranked

2793
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband, electrically tunable third-harmonic generation in graphene. <i>Nature Nanotechnology</i> , 2018, 13, 583-588.	31.5	211
2	Out-of-plane heat transfer in van der Waals stacks through electron–hyperbolic phonon coupling. <i>Nature Nanotechnology</i> , 2018, 13, 41-46.	31.5	128
3	Snapshots of the retarded interaction of charge carriers with ultrafast fluctuations in cuprates. <i>Nature Physics</i> , 2015, 11, 421-426.	16.7	92
4	Exciton–exciton annihilation and biexciton stimulated emission in graphene nanoribbons. <i>Nature Communications</i> , 2016, 7, 11010.	12.8	85
5	Intravalley Spin–Flip Relaxation Dynamics in Single-Layer WS ₂ . <i>Nano Letters</i> , 2018, 18, 6882-6891.	9.1	82
6	Hot carriers in graphene – fundamentals and applications. <i>Nanoscale</i> , 2021, 13, 8376-8411.	5.6	75
7	Charge Photogeneration in Donor–Acceptor Conjugated Materials: Influence of Excess Excitation Energy and Chain Length. <i>Journal of the American Chemical Society</i> , 2013, 135, 4282-4290.	13.7	69
8	Control of Crystal Symmetry Breaking with Halogen-Substituted Benzylammonium in Layered Hybrid Metal-Halide Perovskites. <i>Journal of the American Chemical Society</i> , 2020, 142, 5060-5067.	13.7	65
9	Multispecies and individual gas molecule detection using Stokes solitons in a graphene over-modal microresonator. <i>Nature Communications</i> , 2021, 12, 6716.	12.8	64
10	All-optical polarization and amplitude modulation of second-harmonic generation in atomically thin semiconductors. <i>Nature Photonics</i> , 2021, 15, 837-842.	31.4	59
11	Broadly tunable ultrafast pump-probe system operating at multi-kHz repetition rate. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 014005.	2.2	49
12	Ultrafast pseudospin dynamics in graphene. <i>Physical Review B</i> , 2015, 92, .	3.2	48
13	Strongly Coupled Coherent Phonons in Single-Layer MoS ₂ . <i>ACS Nano</i> , 2020, 14, 5700-5710.	14.6	44
14	Electrically Tunable Four-Wave-Mixing in Graphene Heterogeneous Fiber for Individual Gas Molecule Detection. <i>Nano Letters</i> , 2020, 20, 6473-6480.	9.1	42
15	Exciton–phonon coupling strength in single-layer MoSe ₂ at room temperature. <i>Nature Communications</i> , 2021, 12, 954.	12.8	35
16	Coherent Longitudinal Acoustic Phonons in Three-Dimensional Supracrystals of Cobalt Nanocrystals. <i>Nano Letters</i> , 2013, 13, 4914-4919.	9.1	34
17	Ultrafast Charge Photogeneration in Semiconducting Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10849-10855.	3.1	33
18	High energetic excitons in carbon nanotubes directly probe charge-carriers. <i>Scientific Reports</i> , 2015, 5, 9681.	3.3	30

#	ARTICLE	IF	CITATIONS
19	Size and nanocrystallinity controlled gold nanocrystals: synthesis, electronic and mechanical properties. <i>Nanoscale</i> , 2015, 7, 3237-3246.	5.6	30
20	Nonlinear co-generation of graphene plasmons for optoelectronic logic operations. <i>Nature Communications</i> , 2022, 13, .	12.8	30
21	Hot Electrons Modulation of Third-Harmonic Generation in Graphene. <i>ACS Photonics</i> , 2019, 6, 2841-2849.	6.6	29
22	Ultrafast Photophysics of Single-Walled Carbon Nanotubes. <i>Advanced Optical Materials</i> , 2016, 4, 1670-1688.	7.3	28
23	Ultrasensitive Characterization of Mechanical Oscillations and Plasmon Energy Shift in Gold Nanorods. <i>ACS Nano</i> , 2016, 10, 2251-2258.	14.6	27
24	Weak Distance Dependence of Hot-Electron-Transfer Rates at the Interface between Monolayer MoS ₂ and Gold. <i>ACS Nano</i> , 2021, 15, 819-828.	14.6	27
25	Wavelength tunable soliton rains in a nanotube-mode locked Tm-doped fiber laser. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	26
26	Low-Loss Integrated Nanophotonic Circuits with Layered Semiconductor Materials. <i>Nano Letters</i> , 2021, 21, 2709-2718.	9.1	24
27	Wide-Bandgap Double Perovskites with Multiple Longitudinal Optical Phonon Scattering. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	20
28	Photocatalytic activity of exfoliated graphite-TiO ₂ nanoparticle composites. <i>Nanoscale</i> , 2019, 11, 19301-19314.	5.6	18
29	Optoelectronic mixing with high-frequency graphene transistors. <i>Nature Communications</i> , 2021, 12, 2728.	12.8	18
30	Parametric Nonlinear Optics with Layered Materials and Related Heterostructures. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	16
31	Stimulated Emission Properties of Fluorophores by CW-STED Single Molecule Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 16405-16415.	2.6	14
32	Structure and dynamics of the membrane attaching nitric oxide transporter nitrophorin 7. <i>PLoS Research</i> , 0, 4, 45.	1.6	13
33	Electrically Tunable Nonequilibrium Optical Response of Graphene. <i>ACS Nano</i> , 2022, 16, 3613-3624.	14.6	13
34	Ultrafast Spectroscopy of Graphene-Protected Thin Copper Films. <i>ACS Photonics</i> , 2016, 3, 1508-1516.	6.6	8
35	Delayed electron relaxation in CdTe nanorods studied by spectral analysis of the ultrafast transient absorption. <i>Chemical Physics</i> , 2016, 471, 39-45.	1.9	8
36	Guided Assembly and Patterning of Intrinsically Fluorescent Amyloid Fibers with Long-Range Order. <i>Nano Letters</i> , 2021, 21, 938-945.	9.1	8

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37	Structure and dynamics of the membrane attaching nitric oxide transporter nitrophorin 7. <i>F1000Research</i> , 2015, 4, 45.	1.6	7
38	Below-gap excitation of semiconducting single-wall carbon nanotubes. <i>Nanoscale</i> , 2015, 7, 18337-18342.	5.6	5
39	Tunable broadband light emission from graphene. <i>2D Materials</i> , 2021, 8, 035026.	4.4	5
40	Tuning exciton recombination rates in doped transition metal dichalcogenides. <i>Optical Materials: X</i> , 2021, 12, 100097.	0.8	5
41	Electrostatic Tuning of the Ligand Binding Mechanism by Glu27 in Nitrophorin 7. <i>Scientific Reports</i> , 2018, 8, 10855.	3.3	4
42	Intravalley Spin-Flip Relaxation Dynamics in Single-Layer WS ₂ . , 2019, , .		3
43	Tuning nanowire lasers <i>via</i> hybridization with two-dimensional materials. <i>Nanoscale</i> , 2022, 14, 6822-6829.	5.6	2
44	Ultrafast Charge Photogeneration and Dynamics in Semiconducting Carbon Nanotubes. <i>Springer Proceedings in Physics</i> , 2015, , 360-362.	0.2	1
45	Advanced spectroscopies of graphene and 2D materials. , 2016, , .		0
46	Graphene electrically tuneable third harmonic generation. , 2018, , .		0
47	Hot Electrons Modulation of Third Harmonic Generation in Graphene. , 2019, , .		0
48	Gate-Tunable Ultrafast Optical Response of Single-Layer Graphene. , 2019, , .		0
49	Ultrafast charge photogeneration and dynamics in semiconducting carbon nanotubes. , 2014, , .		0
50	Ultrafast Pseudospin Dynamics in Graphene. , 2015, , .		0
51	Gate controllable ultrafast fiber lasers based on graphene. , 2018, , .		0
52	Active photonic integrated circuits combining Si ₃ N ₄ microresonators with 2D materials for applications in the visible wavelength range. , 2018, , .		0
53	Broadband Wavelength Tunable Mode-Locked Tm-Doped Fiber Laser Based on Carbon Nanotubes. , 2018, , .		0
54	Electrically tunable four-wave-mixing in graphene heterogeneous fiber for individual gas molecule detection. , 2021, , .		0

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55	Electrical and all-optical modulation of harmonic generation in 2D materials. , 0, , .		0