

# Davide Sangalli

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

4,491  
citations

279487

23  
h-index

223531

46  
g-index

51  
all docs

51  
docs citations

51  
times ranked

6115  
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time ab initio description of the photon-echo mechanisms in extended systems: the case study of bulk GaAs. <i>SciPost Physics</i> , 2022, 12, .	1.5	0
2	Spinorial formulation of the $G$ -W-BSE equations and spin properties of excitons in two-dimensional transition metal dichalcogenides. <i>Physical Review B</i> , 2021, 103, .	1.1	16
3	Excitons and carriers in transient absorption and time-resolved ARPES spectroscopy: An ab initio approach. <i>Physical Review Materials</i> , 2021, 5, .	0.9	9
4	Subpicosecond metamagnetic phase transition in FeRh driven by non-equilibrium electron dynamics. <i>Nature Communications</i> , 2021, 12, 5088.	5.8	25
5	A systematic study of the valence electronic structure of cyclo(Gly-Phe), cyclo(Trp-Tyr) and cyclo(Trp-Trp) dipeptides in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26793-26805.	1.3	4
6	Photoinduced modulation of the excitonic resonance via coupling with coherent phonons in a layered semiconductor. <i>Physical Review Research</i> , 2021, 3, .	1.3	9
7	Double k-Grid Method for Solving the Bethe-Salpeter Equation via Lanczos Approaches. <i>Frontiers in Chemistry</i> , 2021, 9, 763946.	1.8	2
8	Exciton-Phonon Interaction and Relaxation Times from First Principles. <i>Physical Review Letters</i> , 2020, 125, 107401.	2.9	57
9	Observation of an Excitonic Mott Transition Through Ultrafast Core-cum-Conduction Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2020, 125, 096401.	2.9	35
10	Magneto-optical response of chromium trihalide monolayers: chemical trends. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8856-8863.	2.7	44
11	Strongly Coupled Coherent Phonons in Single-Layer MoS <sub>2</sub> . <i>ACS Nano</i> , 2020, 14, 5700-5710.	7.3	44
12	Real-time modeling of optical orientation in GaAs: Generation and decay of the degree of spin polarization. <i>Physical Review B</i> , 2020, 102, .	1.1	5
13	Strong Exciton-Coherent Phonon Coupling in Single-Layer MoS <sub>2</sub> . , 2020, , .		0
14	First-Principles Nonequilibrium Green's Function Approach to Ultrafast Charge Migration in Glycine. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 4526-4534.	2.3	17
15	Real-time observation of the intravalley spin-flip process in single-layer WS <sub>2</sub> . <i>EPJ Web of Conferences</i> , 2019, 205, 05012.	0.1	0
16	Many-body perturbation theory calculations using the yambo code. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 325902.	0.7	269
17	Intravalley Spin-Flip Relaxation Dynamics in Single-Layer WS <sub>2</sub> . , 2019, , .		3
18	Pump-driven normal-to-excitonic insulator transition: Josephson oscillations and signatures of BEC-BCS crossover in time-resolved ARPES. <i>Physical Review Materials</i> , 2019, 3, .	0.9	30

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19	Ultrafast Charge Migration in XUV Photoexcited Phenylalanine: A First-Principles Study Based on Real-Time Nonequilibrium Green's Functions. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1353-1358.	2.1	36
20	Intravalley Spin-Flip Relaxation Dynamics in Single-Layer WS <sub>2</sub> . <i>Nano Letters</i> , 2018, 18, 6882-6891.	4.5	82
21	Theory and Ab Initio Computation of the Anisotropic Light Emission in Monolayer Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2018, 18, 3839-3843.	4.5	37
22	An ab-initio approach to describe coherent and non-coherent exciton dynamics. <i>European Physical Journal B</i> , 2018, 91, 1.	0.6	21
23	Optical properties of periodic systems within the current-current response framework: Pitfalls and remedies. <i>Physical Review B</i> , 2017, 95, .	1.1	22
24	Carbon nanotubes as excitonic insulators. <i>Nature Communications</i> , 2017, 8, 1461.	5.8	51
25	Ab Initio Calculations of Ultrashort Carrier Dynamics in Two-Dimensional Materials: Valley Depolarization in Single-Layer WSe <sub>2</sub> . <i>Nano Letters</i> , 2017, 17, 4549-4555.	4.5	83
26	First-principles approach to excitons in time-resolved and angle-resolved photoemission spectra. <i>Physical Review B</i> , 2016, 94, .	1.1	56
27	Nonequilibrium optical properties in semiconductors from first principles: A combined theoretical and experimental study of bulk silicon. <i>Physical Review B</i> , 2016, 93, .	1.1	34
28	Dielectrics in a time-dependent electric field: A real-time approach based on density-polarization functional theory. <i>Physical Review B</i> , 2016, 94, .	1.1	20
29	Photo-Induced Bandgap Renormalization Governs the Ultrafast Response of Single-Layer MoS <sub>2</sub> . <i>ACS Nano</i> , 2016, 10, 1182-1188.	7.3	272
30	Nonequilibrium Bethe-Salpeter equation for transient photoabsorption spectroscopy. <i>Physical Review B</i> , 2015, 92, .	1.1	37
31	Complete collisions approximation to the Kadanoff-Baym equation: a first-principles implementation. <i>Journal of Physics: Conference Series</i> , 2015, 609, 012006.	0.3	16
32	<i>Ab initio</i> electronic structure, optical, and magneto-optical properties of MnGaAs digital ferromagnetic heterostructures. <i>Physical Review B</i> , 2015, 91, .	1.1	8
33	Ultra-fast carriers relaxation in bulk silicon following photo-excitation with a short and polarized laser pulse. <i>Europhysics Letters</i> , 2015, 110, 47004.	0.7	47
34	Ultrafast carriers dynamics in silicon: a joint experimental and theoretical study. , 2014, , .		0
35	Electronic and magnetic properties of iron doped zirconia: Theory and experiment. <i>Journal of Applied Physics</i> , 2014, 115, 17D718.	1.1	10
36	Experimental versus $\text{ab initio}$ x-ray absorption of iron-doped zirconia: Trends in $\text{O K-edge}$ spectra as a function of iron doping. <i>Physical Review B</i> , 2014, 90, .	1.1	18

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37	Exploiting magnetic properties of Fe doping in zirconia. European Physical Journal B, 2013, 86, 1.	0.6	18
38	Effect of spin-orbit interaction on the optical spectra of single-layer, double-layer, and bulk MoS <sub>2</sub> . Physical Review B, 2013, 88, .	1.1	382
39	Stabilization of tetragonal/cubic phase in Fe doped zirconia grown by atomic layer deposition. Thin Solid Films, 2013, 533, 83-87.	0.8	16
40	Role of oxygen vacancies on the structure and density of states of iron-doped zirconia. Physical Review B, 2013, 87, .	1.1	27
41	Spectroscopic ellipsometry model for optical constant of NiSi formed on silicon-on-insulator substrates. Journal of Applied Physics, 2012, 111, 093501.	1.1	3
42	Pseudopotential-based first-principles approach to the magneto-optical Kerr effect: From metals to the inclusion of local fields and excitonic effects. Physical Review B, 2012, 86, .	1.1	31
43	Anomalous Aharonov-Bohm Gap Oscillations in Carbon Nanotubes. Nano Letters, 2011, 11, 4052-4057.	4.5	9
44	Exchange-correlation effects in the monoclinic to tetragonal phase stabilization of yttrium-doped ZrO <sub>2</sub> : A first-principles approach. Physical Review B, 2011, 84, .	1.1	23
45	Double excitations in correlated systems: A many-body approach. Journal of Chemical Physics, 2011, 134, 034115.	1.2	59
46	Vibrational properties of sp carbon atomic wires in cluster-assembled carbon films. Physica Status Solidi (B): Basic Research, 2010, 247, 2017-2021.	0.7	10
47	Double excitations in finite systems. Journal of Chemical Physics, 2009, 130, 044108.	1.2	96
48	ABINIT: First-principles approach to material and nanosystem properties. Computer Physics Communications, 2009, 180, 2582-2615.	3.0	2,297
49	Effect of Axial Torsion on s-p Carbon Atomic Wires. Physical Review Letters, 2009, 102, 245502.	2.9	99