

# Gianluca Stefanucci

## List of Publications by Year in descending order

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Version: 2024-02-01

102  
papers

3,963  
citations

147801

31  
h-index

155660

55  
g-index

103  
all docs

103  
docs citations

103  
times ranked

1785  
citing authors



#	ARTICLE	IF	CITATIONS
19	Ultrafast Quantum Interference in the Charge Migration of Tryptophan. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 891-899.	4.6	21
20	Nonequilibrium spectral functions from multiterminal steady-state density functional theory. <i>Physical Review B</i> , 2019, 100, .	3.2	8
21	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.	5.3	17
22	Nonequilibrium Green's Functions. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900335.	1.5	2
23	Distinguishing Majorana zero modes from impurity states through time-resolved transport. <i>New Journal of Physics</i> , 2019, 21, 103038.	2.9	19
24	The Dissection Algorithm for the Second-Order Born Self-Energy. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800573.	1.5	5
25	The Potential of EuPRAXIA@SPARC_LAB for Radiation Based Techniques. <i>Condensed Matter</i> , 2019, 4, 30.	1.8	12
26	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, .	2.4	30
27	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.	4.6	36
28	Charge Separation in Donor- $C_{60}$ Complexes with Real-Time Green Functions: The Importance of Nonlocal Correlations. <i>Nano Letters</i> , 2018, 18, 785-792.	9.1	37
29	Benchmarking nonequilibrium Green's functions against configuration interaction for time-dependent Auger decay processes. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	7
30	CHEERS: a tool for correlated hole-electron evolution from real-time simulations. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 465901.	1.8	32
31	The generalized Kadanoff-Baym ansatz with initial correlations. <i>Physical Review B</i> , 2018, 98, .	3.2	28
32	Time-dependent i-DFT exchange-correlation potentials with memory: applications to the out-of-equilibrium Anderson model. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	10
33	Molecular junctions and molecular motors: Including Coulomb repulsion in electronic friction using nonequilibrium Green's functions. <i>Physical Review B</i> , 2018, 98, .	3.2	25
34	An ab-initio approach to describe coherent and non-coherent exciton dynamics. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	21
35	Real-time dynamics of Auger wave packets and decays in ultrafast charge migration processes. <i>Physical Review A</i> , 2018, 97, .	2.5	22
36	AC transport in correlated quantum dots: From Kondo to Coulomb blockade regime. <i>Physical Review B</i> , 2018, 97, .	3.2	4

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37	Transport through correlated systems with density functional theory. Journal of Physics Condensed Matter, 2017, 29, 413002.	1.8	23
38	Time-resolved photoabsorption in finite systems: A first-principles NEGF approach. Journal of Physics: Conference Series, 2016, 696, 012004.	0.4	9
39	Nonequilibrium Anderson model made simple with density functional theory. Physical Review B, 2016, 94, .	3.2	24
40	First-principles approach to excitons in time-resolved and angle-resolved photoemission spectra. Physical Review B, 2016, 94, .	3.2	56
41	Density functional theory of the Seebeck coefficient in the Coulomb blockade regime. Physical Review B, 2016, 94, .	3.2	14
42	Phononic heat transport in the transient regime: An analytic solution. Physical Review B, 2016, 93, .	3.2	24
43	Time-dependent Landauer-Buttiker formalism for superconducting junctions at arbitrary temperatures. Journal of Physics: Conference Series, 2016, 696, 012016.	0.4	11
44	Vertex Corrections for Positive-Definite Spectral Functions of Simple Metals. Physical Review Letters, 2016, 117, 206402.	7.8	18
45	First-principles nonequilibrium Green's-function approach to transient photoabsorption: Application to atoms. Physical Review A, 2015, 92, .	2.5	57
46	Nonequilibrium Bethe-Salpeter equation for transient photoabsorption spectroscopy. Physical Review B, 2015, 92, .	3.2	37
47	Transient dynamics in the Anderson-Holstein model with interfacial screening. Journal of Computational Electronics, 2015, 14, 352-359.	2.5	7
48	Some exact properties of the nonequilibrium response function for transient photoabsorption. Physical Review A, 2015, 91, .	2.5	37
49	Diagrammatic expansion for positive density-response spectra: Application to the electron gas. Physical Review B, 2015, 91, .	3.2	21
50	Steady-State Density Functional Theory for Finite Bias Conductances. Nano Letters, 2015, 15, 8020-8025.	9.1	45
51	Diagrammatic expansion for positive spectral functions beyond $G < W < G$ . Application to vertex corrections in the electron gas. Physical Review B, 2014, 90, .	3.2	40
52	Charge dynamics in molecular junctions: Nonequilibrium Green's function approach made fast. Physical Review B, 2014, 89, .	3.2	84
53	Nonadiabatic Van der Pol oscillations in molecular transport. European Physical Journal B, 2014, 87, 1.	1.5	7
54	Ultra-nonlocality in density functional theory for photo-emission spectroscopy. Journal of Chemical Physics, 2014, 140, 18A526.	3.0	9

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55	Time-dependent Landauer-Büttiker formula: Application to transient dynamics in graphene nanoribbons. <i>Physical Review B</i> , 2014, 89, .	3.2	51
56	Image charge effects in the nonequilibrium Anderson-Holstein model. <i>Physical Review B</i> , 2013, 88, .	3.2	19
57	Kondo effect in the Kohn-Sham conductance of multiple-level quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2378-2385.	1.5	13
58	Dynamical Correction to Linear Kohn-Sham Conductances from Static Density Functional Theory. <i>Physical Review Letters</i> , 2013, 111, 030601.	7.8	41
59	Time-dependent Landauer-Büttiker formula for transient dynamics. <i>Journal of Physics: Conference Series</i> , 2013, 427, 012014.	0.4	23
60	Missing derivative discontinuity of the exchange-correlation energy for attractive interactions: The charge Kondo effect. <i>Physical Review B</i> , 2012, 86, .	3.2	10
61	Wick theorem for general initial states. <i>Physical Review B</i> , 2012, 85, .	3.2	24
62	Image charge dynamics in time-dependent quantum transport. <i>Physical Review B</i> , 2012, 85, .	3.2	35
63	Towards a Description of the Kondo Effect Using Time-Dependent Density-Functional Theory. <i>Physical Review Letters</i> , 2011, 107, 216401.	7.8	83
64	Comparative study of many-body perturbation theory and time-dependent density functional theory in the out-of-equilibrium Anderson model. <i>Physical Review B</i> , 2011, 84, .	3.2	61
65	Initial Correlation Effects in Time-Dependent Transport with One-Dimensional Interacting Leads. <i>Nanoscience and Nanotechnology Letters</i> , 2011, 3, 877-881.	0.4	1
66	Time-dependent bond-current functional theory for lattice Hamiltonians: Fundamental theorem and application to electron transport. <i>Chemical Physics</i> , 2011, 391, 164-172.	1.9	15
67	Circulating Currents and Magnetic Moments in Quantum Rings. <i>Nanoscience and Nanotechnology Letters</i> , 2011, 3, 902-906.	0.4	0
68	On the thermalization of a Luttinger liquid after a sequence of sudden interaction quenches. <i>Europhysics Letters</i> , 2011, 95, 10006.	2.0	29
69	Time-dependent quantum transport with superconducting leads. <i>Journal of Physics: Conference Series</i> , 2010, 220, 012012.	0.4	4
70	Time-dependent transport in graphene nanoribbons. <i>Physical Review B</i> , 2010, 82, .	3.2	53
71	Assessing the accuracy of Kohn-Sham conductances using the Friedel sum rule. <i>Physical Review B</i> , 2010, 81, .	3.2	25
72	Correlation-Induced Memory Effects in Transport Properties of Low-Dimensional Systems. <i>Physical Review Letters</i> , 2010, 105, 156802.	7.8	33

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73	Time-dependent quantum transport with superconducting leads: A discrete-basis Kohn-Sham formulation and propagation scheme. <i>Physical Review B</i> , 2010, 81, .	3.2	58
74	Kadanoff-Baym approach to time-dependent quantum transport in AC and DC fields. <i>Journal of Physics: Conference Series</i> , 2010, 220, 012017.	0.4	26
75	Dynamical Coulomb Blockade and the Derivative Discontinuity of Time-Dependent Density Functional Theory. <i>Physical Review Letters</i> , 2010, 104, 236801.	7.8	115
76	Kadanoff-Baym approach to quantum transport through interacting nanoscale systems: From the transient to the steady-state regime. <i>Physical Review B</i> , 2009, 80, .	3.2	186
77	Bound states in time-dependent quantum transport: oscillations and memory effects in current and density. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 4535.	2.8	36
78	The role of bound states in time-dependent quantum transport. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 355-364.	2.3	29
79	Time-dependent approach to electron pumping in open quantum systems. <i>Physical Review B</i> , 2008, 77, .	3.2	115
80	Spin-flip scattering in time-dependent transport through a quantum dot: Enhanced spin-current and inverse tunneling magnetoresistance. <i>Physical Review B</i> , 2008, 78, .	3.2	36
81	On Costerâ€™Kronig line shapes of solids. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 474209.	1.8	2
82	A many-body approach to quantum transport dynamics: Initial correlations and memory effects. <i>Europhysics Letters</i> , 2008, 84, 67001.	2.0	134
83	Ultrafast manipulation of electron spins in a double quantum dot device: A real-time numerical and analytical study. <i>Physical Review B</i> , 2008, 78, .	3.2	19
84	Bound states in ab initio approaches to quantum transport: A time-dependent formulation. <i>Physical Review B</i> , 2007, 75, .	3.2	77
85	Classical Nuclear Motion in Quantum Transport. <i>Physical Review Letters</i> , 2006, 97, 046603.	7.8	57
86	Conserving approximations in time-dependent density functional theory. <i>Physical Review B</i> , 2005, 72, .	3.2	81
87	Time-dependent quantum transport: A practical scheme using density functional theory. <i>Physical Review B</i> , 2005, 72, .	3.2	291
88	$W=0$ pairing in Hubbard and related models of low-dimensional superconductors. <i>Journal of Physics Condensed Matter</i> , 2004, 16, R1387-R1422.	1.8	5
89	Evidence for $W=0$ pairing in repulsive Hubbard square and hexagonal geometries. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 236-237.	1.2	0
90	Time-dependent partition-free approach in resonant tunneling systems. <i>Physical Review B</i> , 2004, 69, .	3.2	269

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91	Time-dependent quantum transport: An exact formulation based on TDDFT. Europhysics Letters, 2004, 67, 14-20.	2.0	121
92	INTERPLANAR HOPPING OF $W = 0$ BOUND PAIRS. International Journal of Modern Physics B, 2003, 17, 567-572.	2.0	0
93	$W=0$ pairing in (N,N) carbon nanotubes away from half filling. Physical Review B, 2002, 66, .	3.2	11
94	“Spin-disentangled” exact diagonalization of repulsive Hubbard systems: superconducting pair propagation. Journal of Physics Condensed Matter, 2002, 14, L709-L714.	1.8	2
95	On-site repulsion as the source of pairing in carbon nanotubes and intercalated graphite. European Physical Journal B, 2002, 30, 139-142.	1.5	6
96	Exact ground state of the two-dimensional Hubbard model at half-filling for $U=0+$ . Solid State Communications, 2001, 117, 451-454.	1.9	3
97	Antiferromagnetism of the two-dimensional Hubbard model at half-filling: the analytic ground state for weak coupling. Journal of Physics Condensed Matter, 2001, 13, 1279-1294.	1.8	1
98	CANONICAL TRANSFORMATION OF THE HUBBARD MODEL AND $W = 0$ PAIRING: COMPARISON WITH EXACT DIAGONALIZATION RESULTS. International Journal of Modern Physics B, 2000, 14, 2994-2999.	2.0	4
99	Superconducting Pairs in Clusters and in the Cu-O Plane. International Journal of Modern Physics B, 1999, 13, 1195-1200.	2.0	0
100	$W = 0$ pairing in Cu-O clusters and in the plane. European Physical Journal B, 1999, 10, 293-304.	1.5	12
101	Canonical transformation of the three-band Hubbard model and hole pairing. Solid State Communications, 1998, 109, 229-233.	1.9	11
102	Ultrafast dynamics of adenine following XUV ionization. JPhys Photonics, 0, , .	4.6	2