

# Giancarlo Rossi

## List of Publications by Year in descending order

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75  
papers

2,397  
citations

218677

26  
h-index

206112

48  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1390  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chiral symmetry on the lattice with Wilson fermions. Nuclear Physics B, 1985, 262, 331-355.	2.5	424
2	Instantons in supersymmetric Yang-Mills and D-instantons in IIB superstring theory. Journal of High Energy Physics, 1998, 1998, 013-013.	4.7	127
3	Anomalous dimensions in SYM theory at order. Nuclear Physics B, 2000, 584, 216-232.	2.5	120
4	Light meson physics from maximally twisted mass lattice QCD. Journal of High Energy Physics, 2010, 2010, 1.	4.7	103
5	Leading isospin breaking effects on the lattice. Physical Review D, 2013, 87, .	4.7	90
6	Non-perturbative renormalization of quark bilinear operators with N f = 2 (tmQCD) Wilson fermions and the tree-level improved gauge action. Journal of High Energy Physics, 2010, 2010, 1.	4.7	88
7	On the logarithmic behaviour in Script N = 4 SYM theory. Journal of High Energy Physics, 1999, 1999, 020-020.	4.7	87
8	Properties of the Konishi multiplet in Script N = 4 SYM theory. Journal of High Energy Physics, 2001, 2001, 042-042.	4.7	86
9	The octet non-leptonic Hamiltonian and current algebra on the lattice with Wilson fermions. Nuclear Physics B, 1987, 289, 505-534.	2.5	76
10	Reducing cutoff effects in maximally twisted LQCD close to the chiral limit. Journal of High Energy Physics, 2006, 2006, 038-038.	4.7	71
11	B-physics from Nf = 2 tmQCD: the Standard Model and beyond. Journal of High Energy Physics, 2014, 2014, 1.	4.7	70
12	On operator mixing in SYM. Nuclear Physics B, 2002, 646, 69-101.	2.5	66
13	Twisted mass quarks and the phase structure of lattice QCD. European Physical Journal C, 2005, 39, 421.	3.9	64
14	Simulating twisted mass fermions at physical light, strange, and charm quark masses. Physical Review D, 2018, 98, .	4.7	58
15	Lattice QCD determination of $m_b$ , $f_B$ and $f_{B_s}$ with twisted mass Wilson fermions. Journal of High Energy Physics, 2012, 2012, 1.	4.7	53
16	Isospin breaking effects due to the up-down mass difference in lattice QCD. Journal of High Energy Physics, 2012, 2012, 1.	4.7	51
17	Deep inelastic scattering in improved lattice QCD (I). The first moment of structure functions. Nuclear Physics B, 1995, 433, 351-389.	2.5	48
18	Explicit construction of Yang-Mills instantons on ALE spaces. Nuclear Physics B, 1996, 473, 367-404.	2.5	44

#	ARTICLE	IF	CITATIONS
19	A proposal for B-physics on current lattices. Journal of High Energy Physics, 2010, 2010, 1.	4.7	43
20	The stress tensor of a molecular system: An exercise in statistical mechanics. Journal of Chemical Physics, 2006, 125, 034101.	3.0	42
21	Sigma terms and strangeness content of the nucleon with $N_f = 2+1+1$ twisted mass fermions. Journal of High Energy Physics, 2012, 2012, 1.	4.7	33
22	Zn induced structural aggregation patterns of $\beta^2$ -amyloid peptides by first-principle simulations and XAS measurements. Metallomics, 2012, 4, 156-165.	2.4	33
23	The string-junction picture of multiquark states: an update. Journal of High Energy Physics, 2016, 2016, 1.	4.7	32
24	Spontaneous CP breaking in QCD and the axion potential: an effective Lagrangian approach. Journal of High Energy Physics, 2017, 2017, 1.	4.7	28
25	Deep inelastic scattering in improved lattice QCD (II). The second moment of structure functions. Nuclear Physics B, 1995, 456, 271-295.	2.5	27
26	Modeling the interplay of glycine protonation and multiple histidine binding of copper in the prion protein octarepeat subdomains. Journal of Biological Inorganic Chemistry, 2009, 14, 361-374.	2.6	27
27	A first-principle calculation of the XANES spectrum of $\text{Cu}^{2+}$ in water. Journal of Chemical Physics, 2015, 143, 124508.	3.0	24
28	Pion electroproduction at threshold. Il Nuovo Cimento A, 1973, 14, 425-444.	0.2	23
29	Surprises from the resolution of operator mixing in SYM. Nuclear Physics B, 2004, 685, 65-88.	2.5	22
30	$\langle \bar{\psi} \psi \rangle$ cutoff effects in lattice Wilson fermion simulations. Physical Review D, 2010, 81, .	4.7	22
31	BK-parameter from $N_f=2$ twisted mass lattice QCD. Physical Review D, 2011, 83, .	4.7	21
32	The effect of $\beta^2$ -sheet breaker peptides on metal associated Amyloid- $\beta^2$ peptide aggregation process. Biophysical Chemistry, 2017, 229, 110-114.	2.8	19
33	Kaon mixing beyond the SM from $N_f = 2$ tmQCD and model independent constraints from the UTA. Journal of High Energy Physics, 2013, 2013, 1.	4.7	18
34	The role of metals in amyloid aggregation—Experiments and ab initio simulations. International Journal of Quantum Chemistry, 2008, 108, 1992-2015.	2.0	17
35	$\text{Cu(II)} \leftrightarrow \text{Zn(II)}$ Cross-Modulation in Amyloid- $\beta$ Peptide Binding: An X-ray Absorption Spectroscopy Study. Journal of Physical Chemistry B, 2015, 119, 15813-15820.	2.6	16
36	The stress tensor in thermodynamics and statistical mechanics. Journal of Chemical Physics, 2010, 132, 074902.	3.0	15

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37	SARS-CoV-2 Virion Stabilization by Zn Binding. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 222.	3.5	14
38	Canonical commutation relations and Gauss's law in the temporal gauge. <i>Physical Review D</i> , 1984, 29, 2997-2999.	4.7	13
39	The Potential of EuPRAXIA@SPARC_LAB for Radiation Based Techniques. <i>Condensed Matter</i> , 2019, 4, 30.	1.8	12
40	Looking at hadronic final states at high energies. <i>Nuclear Physics B</i> , 1976, 111, 111-133.	2.5	11
41	Dealing with Cu reduction in X-ray absorption spectroscopy experiments. <i>Metallomics</i> , 2019, 11, 1401-1410.	2.4	11
42	Zn <sup>2+</sup> -Induced Interactions Between SARS-CoV-2 orf7a and BST2/Tetherin. <i>ChemistryOpen</i> , 2021, 10, 1133-1141.	1.9	11
43	Rigorous treatment of the lattice renormalization problem offB. <i>Physical Review D</i> , 1993, 47, 1206-1218.	4.7	10
44	On the ADHM construction on ALE gravitational backgrounds. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 359, 49-55.	4.1	10
45	Multi-scale theoretical approach to X-ray absorption spectra in disordered systems: an application to the study of Zn(II) in water. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 24775-24782.	2.8	10
46	Multiple-scattering corrections to high-energy $\gamma^+$ photoproduction. <i>Lettere Al Nuovo Cimento Rivista Internazionale Della Societ� Italiana Di Fisica</i> , 1969, 1, 537-543.	0.4	9
47	Studying the Cu binding sites in the PrP N-terminal region: a test case for ab initio simulations. <i>European Biophysics Journal</i> , 2007, 36, 841-845.	2.2	9
48	QCD perturbation theory in the temporal gauge. <i>Zeitschrift F�r Physik C-Particles and Fields</i> , 1990, 48, 653-661.	1.5	8
49	Instanton effects in supersymmetric Yang-Mills theories on ALE gravitational backgrounds. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 359, 56-61.	4.1	7
50	An Improved Method for Detection of Words with Unusual Occurrence Frequency in Nucleotidic Sequences. <i>Journal of Theoretical Biology</i> , 1993, 165, 659-672.	1.7	6
51	X-Ray Absorption Spectroscopy Measurements of Cu-ProlAPP Complexes at Physiological Concentrations. <i>Condensed Matter</i> , 2019, 4, 13.	1.8	6
52	Multiple-scattering corrections to pion photoproduction. <i>Il Nuovo Cimento A</i> , 1969, 64, 1033-1052.	0.2	5
53	On time dependence of the Wilson loop in the temporal gauge. <i>Il Nuovo Cimento A</i> , 1984, 84, 270-284.	0.2	5
54	qq <sup>+</sup> -potential. <i>Physical Review D</i> , 2013, 87, .	4.7	5

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55	Plasma-Generated X-ray Pulses: Betatron Radiation Opportunities at EuPRAXIA@SPARC_LAB. Condensed Matter, 2022, 7, 23.	1.8	5
56	Dynamical Generation of Elementary Fermion Mass: First Lattice Evidence. Physical Review Letters, 2019, 123, 061802.	7.8	4
57	Radiative corrections to the lepton polarization and to the rate in $K\mu^+\nu_e$ decay. Il Nuovo Cimento A, 1969, 62, 631-647.	0.2	3
58	Mesoscopic behavior from microscopic Markov dynamics and its application to calcium release channels. Journal of Theoretical Biology, 2014, 343, 102-112.	1.7	3
59	The Notion of Scientific Knowledge in Biology. Science and Education, 2016, 25, 165-197.	2.7	3
60	Cu(II)-Glycerol-Ethylmorpholine Complex Stability Revealed by X-ray Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 1483-1492.	3.1	3
61	A model for the deep inelastic annihilation functions of the nucleon. Il Nuovo Cimento A, 1974, 19, 430-444.	0.2	2
62	Conditions for the self-consistency of the multiperipheral model. Il Nuovo Cimento A, 1974, 19, 255-264.	0.2	2
63	A Study of Oligonucleotide Distributions in DNA Coding Segments. Journal of Theoretical Biology, 1997, 184, 451-469.	1.7	2
64	The role of metals in protein conformational disorders - The case of prion protein and $A\beta$ -peptide. Journal of Physics: Conference Series, 2016, 689, 012028.	0.4	2
65	Testing a non-perturbative mechanism for elementary fermion mass generation: numerical results. EPJ Web of Conferences, 2018, 175, 08008.	0.3	2
66	Modelling Protein Plasticity: The Example of Frataxin and Its Variants. Molecules, 2022, 27, 1955.	3.8	2
67	A sum rule for the pion electromagnetic form factor. Il Nuovo Cimento A, 1968, 56, 207-217.	0.2	1
68	How much are homologous peptides homologous?. Journal of Theoretical Biology, 1995, 175, 437-455.	1.7	1
69	DIS structure functions in lattice QCD. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 801-803.	0.4	1
70	TUNING FORCE-FIELD PARAMETERS BY PRESSURE MEASUREMENTS IN MICRO-CANONICAL SIMULATIONS. International Journal of Modern Physics C, 2004, 15, 205-221.	1.7	1
71	The stress tensor of an atomistic system. Open Physics, 2012, 10, .	1.7	1
72	Constraints on inclusive quantities in the multiperipheral model. Il Nuovo Cimento A, 1976, 36, 23-42.	0.2	0

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73	The role of Metals in Amyloid Aggregation: A Test Case for ab initio Simulations. AIP Conference Proceedings, 2007, , .	0.4	0
74	On the geometry of surface stress. Journal of Chemical Physics, 2014, 140, 044702.	3.0	0
75	A road towards a beyond the Standard Model model. EPJ Web of Conferences, 2022, 258, 06003.	0.3	0