

Jose Gonzalez

List of Publications by Year in descending order

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109
papers

4,121
citations

172457

29
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114465

63
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110
all docs

110
docs citations

110
times ranked

2901
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Fermi liquid behavior of electrons in the half-filled honeycomb lattice (A renormalization group) TJ ETQq1 1 0.784314 rgBT /Overlacc	2.5	516
2	Marginal-Fermi-liquid behavior from two-dimensional Coulomb interaction. Physical Review B, 1999, 59, R2474-R2477.	3.2	397
3	Extended van Hove Singularity and Superconducting Instability in Doped Graphene. Physical Review Letters, 2010, 104, 136803.	7.8	294
4	The electronic spectrum of fullerenes from the Dirac equation. Nuclear Physics B, 1993, 406, 771-794.	2.5	240
5	Electron-electron interactions in graphene sheets. Physical Review B, 2001, 63, .	3.2	222
6	Unconventional Quasiparticle Lifetime in Graphite. Physical Review Letters, 1996, 77, 3589-3592.	7.8	210
7	Kohn-Luttinger Superconductivity in Twisted Bilayer Graphene. Physical Review Letters, 2019, 122, 026801.	7.8	194
8	Non-Abelian Gauge Potentials in Graphene Bilayers. Physical Review Letters, 2012, 108, 216802.	7.8	187
9	Continuum approximation to fullerene molecules. Physical Review Letters, 1992, 69, 172-175.	7.8	180
10	Kohn-Luttinger superconductivity in graphene. Physical Review B, 2008, 78, .	3.2	135
11	Electron-Induced Rippling in Graphene. Physical Review Letters, 2011, 106, 045502.	7.8	84
12	Surface and 3D Quantum Hall Effects from Engineering of Exceptional Points in Nodal-Line Semimetals. Physical Review Letters, 2018, 120, 146601.	7.8	69
13	Graphene wormholes: A condensed matter illustration of Dirac fermions in curved space. Nuclear Physics B, 2010, 825, 426-443.	2.5	68
14	Topological protection from exceptional points in Weyl and nodal-line semimetals. Physical Review B, 2017, 96, .	3.2	62
15	Microscopic Model of Superconductivity in Carbon Nanotubes. Physical Review Letters, 2002, 88, 076403.	7.8	61
16	Renormalization group analysis of electrons near a van Hove singularity. Europhysics Letters, 1996, 34, 711-716.	2.0	54
17	Consistency of Superconducting Correlations with One-Dimensional Electron Interactions in Carbon Nanotubes. Physical Review Letters, 2001, 87, 136401.	7.8	43
18	Magnetic and Kohn-Luttinger instabilities near a Van Hove singularity: Monolayer versus twisted bilayer graphene. Physical Review B, 2013, 88, .	3.2	41

#	ARTICLE	IF	CITATIONS
19	Renormalization group approach to the normal state of copper-oxide superconductors. Nuclear Physics B, 1997, 485, 694-724.	2.5	40
20	Propagating, evanescent, and localized states in carbon nanotube-graphene junctions. Physical Review B, 2009, 79, .	3.2	40
21	Superconducting, Ferromagnetic and Antiferromagnetic Phases in the Hubbard Model. Journal of the Physical Society of Japan, 1998, 67, 1868-1871.	1.6	37
22	Kinematics of Electrons near a Van Hove Singularity. Physical Review Letters, 2000, 84, 4930-4933.	7.8	35
23	Electron self-energy effects on chiral symmetry breaking in graphene. Physical Review B, 2012, 85, .	3.2	32
24	Phase diagram of the quantum electrodynamics of two-dimensional and three-dimensional Dirac semimetals. Physical Review B, 2015, 92, .	3.2	32
25	On the Coulomb interaction in chiral-invariant one-dimensional electron systems. European Physical Journal B, 2000, 18, 3-8.	1.5	30
26	Superconductivity in carbon nanotube ropes. Physical Review B, 2003, 67, .	3.2	30
27	Coulomb screening and electronic instabilities of small-diameter (5,0) nanotubes. Physical Review B, 2005, 72, .	3.2	30
28	Quantum Hall effect in carbon nanotubes and curved graphene strips. Physical Review B, 2007, 76, .	3.2	30
29	Renormalization group approach to chiral symmetry breaking in graphene. Physical Review B, 2010, 82, .	3.2	30
30	Macroscopic Degeneracy of Zero-Mode Rotating Surface States in 3D Dirac and Weyl Semimetals under Radiation. Physical Review Letters, 2016, 116, 156803.	7.8	28
31	Instability of Anisotropic Fermi Surfaces in Two Dimensions. Physical Review Letters, 1997, 79, 3514-3517.	7.8	26
32	ELECTROSTATIC SCREENING IN FULLERENE MOLECULES. Modern Physics Letters B, 1993, 07, 1593-1599.	1.9	24
33	Cooper-pair propagation and superconducting correlations in graphene. Physical Review B, 2007, 76, .	3.2	24
34	Marginal Fermi Liquid in Twisted Bilayer Graphene. Physical Review Letters, 2020, 124, 186801.	7.8	23
35	Crossover from marginal Fermi liquid to Luttinger liquid behavior in carbon nanotubes. Physical Review B, 2001, 64, .	3.2	22
36	Crossover from the Luttinger-Liquid to Coulomb-Blockade Regime in Carbon Nanotubes. Physical Review Letters, 2005, 95, 186403.	7.8	22

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37	Marginal Fermi liquid versus excitonic instability in three-dimensional Dirac semimetals. <i>Physical Review B</i> , 2014, 90, .	3.2	22
38	Critical currents in graphene Josephson junctions. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 145218.	1.8	21
39	Theory of superconductivity in multiwalled carbon nanotubes. <i>Physical Review B</i> , 2006, 74, .	3.2	20
40	Charge instabilities near a Van Hove singularity. <i>Physical Review B</i> , 2001, 63, .	3.2	19
41	The Ising model on tetrahedron-like lattices: a finite-size analysis. <i>Journal of Physics A</i> , 1994, 27, 2965-2983.	1.6	17
42	Insulating, Superconducting, and Large-Compressibility Phases in Nanotube Ropes. <i>Physical Review Letters</i> , 2003, 91, 076401.	7.8	17
43	Magnetic field effects in carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 395017.	1.8	17
44	Strong-coupling phases of 3D Dirac and Weyl semimetals. A renormalization group approach. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	15
45	One-loop-order renormalization of the massless Wess-Zumino model in anti-de Sitter space. <i>Physical Review D</i> , 1986, 33, 619-622.	4.7	14
46	Time-reversal symmetry breaking versus chiral symmetry breaking in twisted bilayer graphene. <i>Physical Review B</i> , 2020, 102, .	3.2	14
47	Non fermi liquid behavior in semimetals. Applications to the fullerenes. <i>Journal of Low Temperature Physics</i> , 1995, 99, 287-292.	1.4	13
48	Properties of electrons near a Van Hove singularity. <i>Journal of Physics and Chemistry of Solids</i> , 2002, 63, 2295-2297.	4.0	13
49	Large N effects and renormalization of the long-range Coulomb interaction in carbon nanotubes. <i>Nuclear Physics B</i> , 2003, 663, 605-621.	2.5	13
50	Dynamical breakdown of parity and time-reversal invariance in the many-body theory of graphene. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	12
51	Pauli-Villars regularization of the Wess-Zumino model in anti-de Sitter space. <i>Physical Review D</i> , 1986, 34, 1076-1088.	4.7	11
52	Doping- and size-dependent suppression of tunneling in carbon nanotubes. <i>Physical Review B</i> , 2004, 69, .	3.2	11
53	Electronic instabilities in 3D arrays of small-diameter (3, 3) carbon nanotubes. <i>European Physical Journal B</i> , 2006, 51, 571-581.	1.5	11
54	Competition between disorder and interaction effects in three-dimensional Weyl semimetals. <i>Physical Review B</i> , 2017, 96, .	3.2	11

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55	One-loop-order renormalization of the massive Wess-Zumino model in anti-de Sitter space. Physical Review D, 1986, 33, 2319-2325.	4.7	10
56	Electronic interactions in fullerene spheres. Physical Review B, 1993, 47, 16576-16581.	3.2	10
57	THEORETICAL ASPECTS OF FULLERENES. International Journal of Modern Physics B, 1993, 07, 4331-4352.	2.0	10
58	Microscopic description of d-wave superconductivity by Van Hove nesting in the Hubbard model. Physical Review B, 2000, 63, .	3.2	10
59	Unconventional Quasiparticle Lifetime in Graphene. Physical Review Letters, 2008, 101, 176802.	7.8	10
60	Many-body effects on out-of-plane phonons in graphene. New Journal of Physics, 2009, 11, 095015.	2.9	10
61	Higher-order renormalization of graphene many-body theory. Journal of High Energy Physics, 2012, 2012, 1.	4.7	10
62	Change of chirality at magic angles of twisted bilayer graphene. Physical Review B, 2020, 102, .	3.2	10
63	Rippling transition from electron-induced condensation of curvature field in graphene. Physical Review B, 2014, 90, .	3.2	9
64	Weak-coupling phases of the attractive $t \hat{\tau} t \hat{\tau}^2$ Hubbard model at the Van Hove filling. Europhysics Letters, 1998, 44, 641-647.	2.0	8
65	Phase diagram of carbon nanotube ropes. Physical Review B, 2004, 70, .	3.2	8
66	Surface and bulk Landau levels in thin films of Weyl semimetals. Physical Review B, 2020, 101, .	3.2	8
67	Is anti-de Sitter supersymmetry radiatively broken?. Nuclear Physics B, 1988, 302, 423-447.	2.5	7
68	Finite-size scaling and conformal anomaly of the Ising model in curved space. Physical Review E, 2000, 61, 3384-3387.	2.1	7
69	Critical behavior of the nonperturbative stabilization of 2D quantum gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 258, 55-60.	4.1	6
70	Charge-density-wave formation by Van Hove nesting in the \hat{L}_{\pm} -phase of Sn/Ge(111). Physical Review B, 2000, 62, 6928-6931.	3.2	6
71	Modulation of Luttinger liquid exponents in multiwalled carbon nanotubes. Physical Review B, 2006, 74, .	3.2	6
72	Confining and repulsive potentials from effective non-Abelian gauge fields in graphene bilayers. Physical Review B, 2016, 94, .	3.2	6

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73	A new vacuum for the supersymmetric one-dimensional discretized string. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 255, 367-374.	4.1	5
74	Strong-coupling phases of the $t\text{-}t'$ -Hubbard model. Physical Review B, 1997, 56, 367-371.	3.2	5
75	Selection rules and superconducting correlations in carbon nanotubes. European Physical Journal B, 2003, 36, 317-326.	1.5	5
76	A transport approach to the superconducting proximity effect in carbon nanotubes. Journal of Physics Condensed Matter, 2003, 15, S2473-S2488.	1.8	5
77	Current instability and diamagnetism in small-diameter carbon nanotubes. Physical Review B, 2005, 72, .	3.2	5
78	Magnetic phases from competing Hubbard and extended Coulomb interactions in twisted bilayer graphene. Physical Review B, 2021, 104, .	3.2	5
79	Shake-up effects and intermolecular tunneling in C_{60} ions. Physical Review B, 1994, 50, 5752-5755.	3.2	4
80	Spin and superconducting instabilities near a Van Hove singularity. Nuclear Physics B, 2002, 642, 407-432.	2.5	4
81	Superconducting and pseudogap phases from scaling near a Van Hove singularity. Physical Review B, 2003, 67, .	3.2	4
82	Boundary conditions and renormalization in anti-de Sitter supersymmetry. Physical Review D, 1988, 37, 2357-2360.	4.7	3
83	A supersymmetric model of random surfaces at $D = 1$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 247, 267-272.	4.1	3
84	Variational approach to the Hubbard model in a C_{60} cluster. Physical Review B, 1996, 53, 11729-11733.	3.2	3
85	ANISOTROPIC FERMI SURFACES AND KOHN-LUTTINGER SUPERCONDUCTIVITY IN TWO DIMENSIONS. International Journal of Modern Physics B, 1999, 13, 2545-2572.	2.0	3
86	Progress in Modeling Graphene: The Novel Features of this Material. Advanced Materials, 2011, 23, 5324-5326.	21.0	3
87	Gluon magnetic mass in Hartree-Fock approximation. Nuclear Physics B, 1982, 204, 485-497.	2.5	2
88	Gravitational versus finite-temperature effects in $SU(5)$ symmetry breaking. Physical Review D, 1985, 31, 1296-1314.	4.7	2
89	Superfield formulation of anti-de Sitter supersymmetry. Classical and Quantum Gravity, 1989, 6, 505-517.	4.0	2
90	Modular invariance of the partition function for the bosonic string in background fields. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 238, 187-192.	4.1	2

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91	Bosonization on a lattice: The emergence of the higher harmonics. Physical Review B, 1995, 51, 4807-4812.	3.2	2
92	Superconductivity in multi-walled carbon nanotubes and doped graphite. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1039-1040.	1.2	2
93	Constraints on background fields from modular invariance. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 237, 386-391.	4.1	1
94	All-Order No-Renormalization of the Mass and Interaction Lagrangians for Anti-de Sitter Supersymmetry. Progress of Theoretical Physics, 1990, 83, 1224-1233.	2.0	1
95	On the fusion rules of conformal matter coupled to 2D quantum gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 278, 428-438.	4.1	1
96	Electronic correlations of small diameter carbon nanotubes. Journal of Physics Condensed Matter, 2006, 18, S2105-S2114.	1.8	1
97	Interplay of Tomonaga-Luttinger liquids and superconductive phase in carbon nanotubes. Europhysics Letters, 2010, 89, 27003.	2.0	1
98	A new result on the gluon magnetic mass in Hartree-Fock approximation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 125, 421-423.	4.1	0
99	Quantum gravitational fluctuations in the SU(5) symmetry breaking. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 149, 341-345.	4.1	0
100	String effective action in the inverse dimensional-expansion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 206, 217-220.	4.1	0
101	NON-PERTURBATIVE VACUUM WAVE-FUNCTIONAL AND CLOSED STRING EQUATIONS OF MOTION. Modern Physics Letters A, 1989, 04, 961-970.	1.2	0
102	ON THE STABILITY OF SUPERSYMMETRY IN CURVED SPACE-TIME. Modern Physics Letters A, 1990, 05, 417-423.	1.2	0
103	MULTICRITICALITY IN STABILIZED 2D QUANTUM GRAVITY. Modern Physics Letters A, 1992, 07, 3465-3477.	1.2	0
104	ON THE NATURE OF NONPERTURBATIVE EFFECTS IN STABILIZED 2-D QUANTUM GRAVITY. Modern Physics Letters A, 1994, 09, 2253-2264.	1.2	0
105	Van hove scenario of high-T _c superconductivity. , 1997, , 305-323.		0
106	Exact Finite Size Results for the Ising Model on the Tetrahedron. Modern Physics Letters B, 1998, 12, 309-318.	1.9	0
107	Electronic instabilities of a Hubbard model approached as a large array of coupled chains: Competition between-wave superconductivity and pseudogap phase. Physical Review B, 2008, 77, .	3.2	0
108	Non-Fermi Liquid Behavior of Electrons in the 2D Honeycomb Lattice: A Renormalization Group Analysis. NATO ASI Series Series B: Physics, 1995, , 283-286.	0.2	0

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109	Encounter with a stranger metal. Nature Physics, 0, , .	16.7	0