

# Marco Zoli

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75  
papers

576  
citations

16  
h-index

20  
g-index

78  
ext. papers

634  
ext. citations

2.1  
avg, IF

4.91  
L-index

#	Paper	IF	Citations
75	Thermodynamics of twisted DNA with solvent interaction. <i>Journal of Chemical Physics</i> , <b>2011</b> , 135, 115101	3.9	38
74	Anharmonic damping of phonon modes in the fcc metals. <i>Physical Review B</i> , <b>1990</b> , 41, 7507-7514	3.3	37
73	Denaturation patterns in heterogeneous DNA. <i>Physical Review E</i> , <b>2010</b> , 81, 051910	2.4	24
72	Path integral method for DNA denaturation. <i>Physical Review E</i> , <b>2009</b> , 79, 041927	2.4	22
71	Polaron crossover in molecular solids. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, 3597-3607	1.8	22
70	Anharmonic lattice vibrations in noble metals. <i>Physical Review B</i> , <b>1990</b> , 41, 7497-7506	3.3	21
69	Twist versus nonlinear stacking in short DNA molecules. <i>Journal of Theoretical Biology</i> , <b>2014</b> , 354, 95-104	2.3	20
68	Helix untwisting and bubble formation in circular DNA. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 205103	3.9	20
67	Stacking interactions in denaturation of DNA fragments. <i>European Physical Journal E</i> , <b>2011</b> , 34, 68	1.5	20
66	Lattice-dynamics effects on small-polaron properties. <i>Physical Review B</i> , <b>2000</b> , 61, 14523-14530	3.3	20
65	Thermodynamic properties of FCC metals: Cu and Al. <i>Journal of Physics Condensed Matter</i> , <b>1990</b> , 2, 525-539	3.9	19
64	Mass renormalization in the Su-Schrieffer-Heeger model. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	18
63	J-factors of short DNA molecules. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 214104	3.9	18
62	Two- and three-dimensional polaronic motion: Beyond the Holstein model. <i>Physical Review B</i> , <b>1998</b> , 57, 10555-10559	3.3	17
61	Flexibility of short DNA helices under mechanical stretching. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 17666-77	3.6	16
60	End-to-end distance and contour length distribution functions of DNA helices. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 214902	3.9	16
59	Twisting and bending stress in DNA minicircles. <i>Soft Matter</i> , <b>2014</b> , 10, 4304-11	3.6	16

58	Entropic penalties in circular DNA assembly. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 174112	3.9	14
57	Path integral description of a semiclassical Su-Schrieffer-Heeger model. <i>Physical Review B</i> , <b>2003</b> , 67,	3.3	14
56	Path integral of the two-dimensional Su-Schrieffer-Heeger model. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	14
55	Anharmonic stacking in supercoiled DNA. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 195103	1.8	11
54	Phonon thermodynamics versus electron-phonon models. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	11
53	c-axis resistivity in high-T <sub>c</sub> superconductors. <i>Physical Review B</i> , <b>1997</b> , 56, 111-114	3.3	9
52	Polaron Mass and Electron-Phonon Correlations in the Holstein Model. <i>Advances in Condensed Matter Physics</i> , <b>2010</b> , 2010, 1-15	1	7
51	Nonlocal electron-phonon correlations in a dispersive Holstein model. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	7
50	Apex-oxygen-atom tunneling as source of anomalous low-temperature specific heat in high-T <sub>c</sub> superconductors. <i>Physical Review B</i> , <b>1991</b> , 44, 7163-7166	3.3	7
49	Twist-stretch profiles of DNA chains. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 225101	1.8	6
48	DNA size in confined environments. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 12566-12575	3.6	6
47	Twisting short dsDNA with applied tension. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2018</b> , 492, 903-915	3.3	6
46	Anharmonic lattice vibrations in palladium. <i>Journal of Physics Condensed Matter</i> , <b>1990</b> , 2, 8859-8868	1.8	6
45	Short DNA persistence length in a mesoscopic helical model. <i>Europhysics Letters</i> , <b>2018</b> , 123, 68003	1.6	6
44	Path integral of the Holstein model with a $\gamma_4$ on-site potential. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	5
43	Time-retarded interactions in systems with tunneling states and strong electron-phonon coupling. <i>Physical Review B</i> , <b>1996</b> , 53, 9074-9083	3.3	5
42	Anharmonic broadening of surface phonons in Cu(111). <i>Solid State Communications</i> , <b>1991</b> , 80, 173-175	1.6	5
41	Temperature-dependent frequency shifts and broadening of phonon linewidths in lead. <i>Journal of Physics Condensed Matter</i> , <b>1991</b> , 3, 6249-6256	1.8	5

40	Polaron self-trapping in a honeycomb net. <i>Journal of Physics Condensed Matter</i> , <b>2001</b> , 13, 10845-10850	1.8	4
39	Dispersive Holstein model: which mass for the small polaron?. <i>Physica C: Superconductivity and Its Applications</i> , <b>1999</b> , 324, 71-76	1.3	4
38	Atomic mean square displacements in f.c.c. metals. <i>Philosophical Magazine Letters</i> , <b>1991</b> , 64, 285-289	1	4
37	Stretching DNA in hard-wall potential channels. <i>Europhysics Letters</i> , <b>2020</b> , 130, 28002	1.6	4
36	Modeling DNA Dynamics by Path Integrals. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 410, 012038	0.3	3
35	Path integral computation of phonon anharmonicity. <i>European Physical Journal B</i> , <b>2004</b> , 40, 79-86	1.2	3
34	Spectral properties of the SuSchriefferHeeger model. <i>Solid State Communications</i> , <b>2002</b> , 122, 531-535	1.6	3
33	Dimensionality effects on the SuSchriefferHeeger model. <i>Physica C: Superconductivity and Its Applications</i> , <b>2003</b> , 384, 274-282	1.3	3
32	Hopping Motion of Small Polarons Versus Temperature and Dimensionality. <i>International Journal of Modern Physics B</i> , <b>1998</b> , 12, 3146-3149	1.1	3
31	Anomalous low-temperature specific heat in high-T <sub>c</sub> superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 178, 390-396	1.3	3
30	Unwinding of circular helicoidal molecules vs. size. <i>Europhysics Letters</i> , <b>2015</b> , 110, 18001	1.6	2
29	On the decay rate of the false vacuum. <i>Journal of Mathematical Physics</i> , <b>2007</b> , 48, 082101	1.2	2
28	Finite size effects in bistable $\phi^4$ models. <i>Journal of Mathematical Physics</i> , <b>2007</b> , 48, 012111	1.2	2
27	Particle path correlations in a phonon bath. <i>Journal of Physics Condensed Matter</i> , <b>2003</b> , 15, 6239-6248	1.8	2
26	Thermodynamics of a continuum SuSchriefferHeeger model. <i>Physica B: Condensed Matter</i> , <b>2004</b> , 344, 372-378	2.8	2
25	Path-integral approach to resistivity anomalies in anharmonic systems. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	2
24	Mass enhancement in narrow-band systems. <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, 2783-2791	1.8	2
23	Anharmonic vibrations of apex oxygen atom in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> and doping effects on the out-of-plane electrical resistivity. <i>Physica C: Superconductivity and Its Applications</i> , <b>1994</b> , 229, 99-104	1.3	2

22	Smearing of the Hebel-Slichter Peak by 2D Fluctuations in Layered Cuprate Superconductors. <i>Journal of the Physical Society of Japan</i> , <b>1991</b> , 60, 3837-3841	1.5	2
21	Anharmonic shifts of phonon energies in aluminium. <i>Philosophical Magazine Letters</i> , <b>1990</b> , 62, 203-207	1	2
20	Base pair fluctuations in helical models for nucleic acids. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 194102	3.9	2
19	Helical Disruptions in Small Loops of DNA. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 574, 012094	0.3	1
18	Polaronic effects in systems with instabilities. <i>Physica C: Superconductivity and Its Applications</i> , <b>1997</b> , 282-287, 1823-1824	1.3	1
17	INSTANTON SOLUTION OF A NONLINEAR POTENTIAL IN FINITE SIZE. <i>International Journal of Modern Physics B</i> , <b>2008</b> , 22, 327-342	1.1	1
16	Metastability Driven by Soft Quantum Fluctuation Modes. <i>Journal of Low Temperature Physics</i> , <b>2008</b> , 151, 1205-1220	1.3	1
15	-particle scattering in the Thomson and Rutherford atomic models. <i>European Journal of Physics</i> , <b>1998</b> , 19, 187-193	0.8	1
14	CHARGE CARRIER MASS IN HIGH T <sub>c</sub> SUPERCONDUCTORS. <i>International Journal of Modern Physics B</i> , <b>1999</b> , 13, 3582-3584	1.1	1
13	Phonon dispersion effects on the motion of small polarons in molecular solids. <i>Physica B: Condensed Matter</i> , <b>1999</b> , 263-264, 756-758	2.8	1
12	Hopping polaronic motion in high-T <sub>c</sub> superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>1999</b> , 317-318, 528-531	1.3	1
11	Lattice instabilities and critical fluctuations in high-T <sub>c</sub> superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>1992</b> , 203, 264-270	1.3	1
10	Many-body anharmonic interactions in Ag and Ni. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1990</b> , 62, 377-385		1
9	First-passage probability: a test for DNA Hamiltonian parameters. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 26901-26909	3.6	1
8	Non-metallic transport in molecular solids versus dimensionality. <i>Journal of Physics Condensed Matter</i> , <b>2001</b> , 13, 2437-2445	1.8	0
7	Finite temperature theory of metastable anharmonic potentials. <i>European Physical Journal B</i> , <b>2008</b> , 62, 221-231	1.2	
6	Resistivity peculiarities in systems with lattice distortions. <i>Physica C: Superconductivity and Its Applications</i> , <b>2001</b> , 364-365, 222-224	1.3	
5	Estimate of the polaron mass in high-T <sub>c</sub> superconductors. <i>Physica B: Condensed Matter</i> , <b>1999</b> , 265, 150-153	1.3	

- 4 Lattice instabilities and c-axis resistivity in high-Tc superconductors. *Physica C: Superconductivity and Its Applications*, **1995**, 250, 301-306 1.3
- 3 Low temperature electrical resistivity in systems with lattice instabilities. *European Physical Journal D*, **1996**, 46, 2629-2630
- 2 Quantum tunneling of the apex oxygen atoms in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub> superconductors: Anharmonic effects on the out of plane electrical resistivity. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 1209-1210 1.3
- 1 Mesoscopic model for nano-channel confined DNA. *Journal of Physics: Conference Series*, **2019**, 1391, 012004 0.3