

Giovanni Modugno

List of Publications by Year in descending order

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93

papers

7,927

citations

76326

40

h-index

58581

82

g-index

94

all docs

94

docs citations

94

times ranked

3999

citing authors

#	ARTICLE	IF	CITATIONS
1	Dimensional Crossover in the Superfluid-Supersolid Quantum Phase Transition. <i>Physical Review X</i> , 2022, 12, .	8.9	21
2	The life of an analogue black hole. <i>Nature Physics</i> , 2021, 17, 300-301.	16.7	0
3	Evidence of superfluidity in a dipolar supersolid from nonclassical rotational inertia. <i>Science</i> , 2021, 371, 1162-1165.	12.6	54
4	Spatial Bloch Oscillations of a Quantum Gas in a “Beat-Note” Superlattice. <i>Physical Review Letters</i> , 2021, 127, 020601.	7.8	9
5	Multimode trapped interferometer with noninteracting Bose-Einstein condensates. <i>Physical Review Research</i> , 2021, 3, .	3.6	2
6	Supersolid symmetry breaking from compressional oscillations in a dipolar quantum gas. <i>Nature</i> , 2019, 574, 382-385.	27.8	140
7	Collisions of Self-Bound Quantum Droplets. <i>Physical Review Letters</i> , 2019, 122, 090401.	7.8	146
8	Observation of a Dipolar Quantum Gas with Metastable Supersolid Properties. <i>Physical Review Letters</i> , 2019, 122, 130405.	7.8	288
9	Dysprosium dipolar Bose-Einstein condensate with broad Feshbach resonances. <i>Physical Review A</i> , 2018, 97, .	2.5	28
10	Self-Bound Quantum Droplets of Atomic Mixtures in Free Space. <i>Physical Review Letters</i> , 2018, 120, 235301.	7.8	372
11	A new setup for experiments with ultracold dysprosium atoms. <i>European Physical Journal: Special Topics</i> , 2017, 226, 2775-2780.	2.6	8
12	Quantum phase slips: from condensed matter to ultracold quantum gases. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160425.	3.4	7
13	Crossing Over from Attractive to Repulsive Interactions in a Tunneling Bosonic Josephson Junction. <i>Physical Review Letters</i> , 2017, 118, 230403.	7.8	64
14	Exploring quantum phase slips in 1D bosonic systems. <i>European Physical Journal: Special Topics</i> , 2017, 226, 2815-2827.	2.6	6
15	Velocity-dependent quantum phase slips in 1D atomic superfluids. <i>Scientific Reports</i> , 2016, 6, 25965.	3.3	17
16	Quantum phase transitions with parity-symmetry breaking and hysteresis. <i>Nature Physics</i> , 2016, 12, 826-829.	16.7	92
17	Finite-temperature effects on interacting bosonic one-dimensional systems in disordered lattices. <i>Physical Review A</i> , 2016, 93, .	2.5	14
18	Mott transition for strongly interacting one-dimensional bosons in a shallow periodic potential. <i>Physical Review A</i> , 2016, 93, .	2.5	47

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19	Measurement of the mobility edge for 3D Anderson localization. <i>Nature Physics</i> , 2015, 11, 554-559.	16.7	159
20	Transport of an interacting Bose gas in 1D disordered lattices. , 2014, , .		1
21	A black-hole laser. <i>Nature Physics</i> , 2014, 10, 793-794.	16.7	34
22	Observation of a Disordered Bosonic Insulator from Weak to Strong Interactions. <i>Physical Review Letters</i> , 2014, 113, 095301.	7.8	93
23	Giant Efimov States Now Observed. <i>Physics Magazine</i> , 2014, 7, .	0.1	0
24	Test of the Universality of the Three-Body Efimov Parameter at Narrow Feshbach Resonances. <i>Physical Review Letters</i> , 2013, 111, 053202.	7.8	112
25	Quantum diffusion with disorder, noise and interaction. <i>New Journal of Physics</i> , 2013, 15, 045007.	2.9	35
26	Modeling the transport of interacting matter waves in a disordered system by a nonlinear diffusion equation. <i>Physical Review E</i> , 2013, 87, 042922.	2.1	7
27	Transport of a Bose Gas in 1D Disordered Lattices at the Fluid-Insulator Transition. <i>Physical Review Letters</i> , 2013, 111, 115301.	7.8	47
28	Direct evaporative cooling of K atoms to Bose-Einstein condensation. <i>Physical Review A</i> , 2012, 86, .	2.5	25
29	Sub-Doppler laser cooling of potassium atoms. <i>Physical Review A</i> , 2011, 84, .	2.5	44
30	Correlation function of weakly interacting bosons in a disordered lattice. <i>New Journal of Physics</i> , 2011, 13, 023020.	2.9	28
31	Observation of Subdiffusion in a Disordered Interacting System. <i>Physical Review Letters</i> , 2011, 106, 230403.	7.8	131
32	The Space Atom Interferometer project: status and prospects. <i>Journal of Physics: Conference Series</i> , 2011, 327, 012050.	0.4	20
33	A Compact Atom Interferometer for Future Space Missions. <i>Microgravity Science and Technology</i> , 2010, 22, 551-561.	1.4	48
34	An ideal Bose-Einstein condensate: From Anderson localization to precision measurements. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 425-431.	2.7	0
35	Delocalization of a disordered bosonic system by repulsive interactions. <i>Nature Physics</i> , 2010, 6, 354-358.	16.7	224
36	Anderson localization in Bose-Einstein condensates. <i>Reports on Progress in Physics</i> , 2010, 73, 102401.	20.1	190

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37	Observation of an Efimov spectrum in an atomic system. <i>Nature Physics</i> , 2009, 5, 586-591.	16.7	329
38	Universal Few-Body Binding. <i>Science</i> , 2009, 326, 1640-1641.	12.6	4
39	Anderson localization of a non-interacting Bose-Einstein condensate. <i>Nature</i> , 2008, 453, 895-898.	27.8	1,393
40	Near-threshold model for ultracold KRb dimers from interisotope Feshbach spectroscopy. <i>Physical Review A</i> , 2008, 77, .	2.5	56
41	Atom Interferometry with a Weakly Interacting Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2008, 100, 080405.	7.8	160
42	Magnetic Dipolar Interaction in a Bose-Einstein Condensate Atomic Interferometer. <i>Physical Review Letters</i> , 2008, 101, 190405.	7.8	91
43	Atom Interferometry with a Weakly Interacting Bose Einstein Condensate. , 2008, , .	1	
44	Experiments with a ^{39}K Bose-Einstein condensate with tunable interactions. , 2007, , .	0	
45	Feshbach resonances in ultracold ^{39}K . <i>New Journal of Physics</i> , 2007, 9, 223-223.	2.9	137
46	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">K</mml:mi><mml:mprescripts /><mml:none /><mml:mn>39</mml:mn></mml:mmultiscripts></mml:math>Bose-Einstein Condensate with Tunable Interactions. <i>Physical Review Letters</i> , 2007, 99, 010403.	7.8	177
47	Feshbach spectroscopy of a K^3Rb atomic mixture. <i>Physical Review A</i> , 2006, 73, .	2.5	139
48	Control of the interaction in a Fermi-Bose mixture. <i>Physical Review A</i> , 2006, 74, .	2.5	101
49	Tuning the interactions in an atomic Fermi-Bose mixture. , 2006, , .	0	
50	Interactions in Ultracold Atomic Mixtures. , 2005, , 280-290.	0	
51	Atomic Fermi gases in optical lattices. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	2
52	Sensitive Measurement of Forces at the Micron Scale Using Bloch Oscillations of Ultracold Atoms. <i>Physical Review Letters</i> , 2005, 95, 093202.	7.8	88
53	Radio Frequency Selective Addressing of Localized Atoms in a Periodic Potential. <i>Physical Review Letters</i> , 2004, 93, 120407.	7.8	36
54	Atom Interferometry with Trapped Fermi Gases. <i>Physical Review Letters</i> , 2004, 92, 230402.	7.8	182

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55	Expansion of a Fermi Gas Interacting with a Bose-Einstein Condensate. Physical Review Letters, 2004, 92, 140405.		7.8	19
56	Collisionally Induced Transport in Periodic Potentials. Physical Review Letters, 2004, 92, 160601.		7.8	121
57	Insulating Behavior of a Trapped Ideal Fermi Gas. Physical Review Letters, 2004, 93, 120401.		7.8	80
58	Atom interferometry in a vertical optical lattice. Fortschritte Der Physik, 2004, 52, 1173-1179.		4.4	8
59	QUANTUM DEGENERATE BOSONS AND FERMIONS IN A 1D OPTICAL LATTICE. , 2004, , .			0
60	Quasi-2D Bose-Fermi mixtures in an optical lattice. European Physical Journal Special Topics, 2004, 116, 253-258.		0.2	3
61	Comparative investigation of $\text{scriptstyle maths} \{\}$. European Physical Journal D, 2003, 23, 409-413.		1.3	2
62	Quantum degenerate potassium-rubidium mixtures. Fortschritte Der Physik, 2003, 51, 396-401.		4.4	2
63	Magnetic Control of the Interaction in Ultracold K-Rb Mixtures. Physical Review Letters, 2003, 90, 163202.		7.8	114
64	Mean-field analysis of the stability of a K-Rb Fermi-Bose mixture. Physical Review A, 2003, 68, .		2.5	71
65	Production of a Fermi gas of atoms in an optical lattice. Physical Review A, 2003, 68, .		2.5	139
66	Scissors mode of an expanding Bose-Einstein condensate. Physical Review A, 2003, 67, .		2.5	16
67	Dipolar oscillations in a quantum degenerate Fermi-Bose atomic mixture. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, S3-S8.		1.4	41
68	Fermi-Bose and Bose-Bose K-Rb Quantum Degenerate Mixtures. , 2003, , .			0
69	Collisional Properties of Ultracold K-Rb Mixtures. Physical Review Letters, 2002, 89, 053202.		7.8	125
70	Cooling atoms in an optical trap by selective parametric excitation. Physical Review A, 2002, 65, .		2.5	24
71	Two Atomic Species Superfluid. Physical Review Letters, 2002, 89, 190404.		7.8	359
72	Collapse of a Degenerate Fermi Gas. Science, 2002, 297, 2240-2243.		12.6	307

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73	Fermi-Bose Quantum Degenerate K40 α ~R87b Mixture with Attractive Interaction. Physical Review Letters, 2002, 89, 150403.	7.8	350
74	Optical and Magnetic Trapping of Fermionic Potassium. , 2002, , 91-108.	0	
75	Anharmonic parametric excitation in optical lattices. Physical Review A, 2001, 64, .	2.5	33
76	Bose-Einstein Condensation of Potassium Atoms by Sympathetic Cooling. Science, 2001, 294, 1320-1322.	12.6	331
77	Optical trapping of cold fermionic potassium for collisional studies. Physical Review A, 2001, 63, .	2.5	13
78	High-resolution investigation of the weak $\frac{1}{2}1+3\frac{1}{2}21-\frac{1}{2}21+\frac{1}{2}3$ band of CO2 around 2.5 μ m. Applied Physics B: Lasers and Optics, 2000, 70, 879-881.	2.2	10
79	Line-shape of dark line and maser emission profile in CPT. European Physical Journal D, 2000, 12, 53-59.	1.3	68
80	Spectroscopic tests of the symmetrization postulate and of the statistics for nuclei in molecules. AIP Conference Proceedings, 2000, , .	0.4	1
81	Testing the symmetrization postulate on molecules with three identical nuclei. Physical Review A, 2000, 62, .	2.5	10
82	Sub-Doppler laser cooling of fermionic 40K atoms. Physical Review A, 1999, 60, R3373-R3376.	2.5	20
83	Pressure broadening in the second overtone of NO, measured with a near infrared DFB diode laser. Optics Communications, 1999, 159, 80-83.	2.1	10
84	Water vapour and carbon dioxide interference in the high sensitivity detection of NH3 with semiconductor diode lasers at 1.5 μ m. Infrared Physics and Technology, 1999, 40, 93-99.	2.9	24
85	High-resolution measurements of line intensity, broadening and shift of CO $\text{mathsf}\{_2\}$ around $\text{mathsf}\{2\}$ m. European Physical Journal D, 1999, 6, 327-332.	1.3	24
86	Detection of H2S at the ppm level using a telecommunication diode laser. Optics Communications, 1998, 145, 76-80.	2.1	40
87	Fundamental noise sources in a high-sensitivity two-tone frequency modulation spectrometer and detection of CO 2 at 1.6 μ m and 2 μ m. Applied Physics B: Lasers and Optics, 1998, 67, 289-296.	2.2	20
88	Search for Small Violations of the Symmetrization Postulate for Spin-0 Particles. Physical Review Letters, 1998, 81, 4790-4793.	7.8	40
89	Power amplifier for 1083 nm using ytterbium doped fibre. Optics Communications, 1997, 136, 243-246.	2.1	23
90	Precise measurement of molecular dipole moments with a tunable far-infrared Stark spectrometer: application to HOCl. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 1645.	2.1	14

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91	Tunable frequency-controlled laser source in the near ultraviolet based on doubling of a semiconductor diode laser. <i>Applied Physics B: Lasers and Optics</i> , 1996, 62, 333-338.	2.2	16
92	The Pure Rotation Spectrum of HOCl in the Submillimeter-Wave Region. <i>Journal of Molecular Spectroscopy</i> , 1995, 172, 559-562.	1.2	14
93	Bose-Einstein condensates and quantum degenerate Fermi gases in optical lattices. , 0, , .	0	0