Brigitte Hiller

List of Publications by Year
in descending order

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125	1,631	304602	360920
papers	citations	22 h-index	35 g-index

127	127	127	611
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gouy phase of type-I SPDC-generated biphotons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 386, 126989.	0.9	3
2	Gauge-covariant Diagonalization of (pi a_1) Mixing and the Resolution of a Low-energy Theorem. Acta Physica Polonica B, Proceedings Supplement, 2021, 14, 187.	0.0	0
3	May the four be with you: novel IR-subtraction methods to tackle NNLO calculations. European Physical Journal C, 2021, 81, 1.	1.4	40
4	Two-loop renormalisation of gauge theories in 4D implicit regularisation and connections to dimensional methods. European Physical Journal C, 2021, 81, 1.	1.4	7
5	A Brief Review of Implicit Regularization and Its Connection with the BPHZ Theorem. Symmetry, 2021, 13, 956.	1.1	7
6	Topâ€“Bottom Condensation Model: Symmetries and Spectrum of the Induced 2HDM. Symmetry, 2021, 13, 1130.	1.1	1
7	Low-energy theorem for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î³</mml:mi><mml:mo stretchy="false">â†’</mml:mo><mml:mn>3</mml:mn><mml:mi>Ï€</mml:mi></mml:math>: Surface terms against<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï€</mml:mi><mml:msub><mml:mi>a</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:math>mixing. Physical Review D, 2020, 101, .	1.6	4
8	Top condensation model: a step towards the correct prediction of the Higgs mass. European Physical Journal C, 2020, 80, 1.	1.4	2
9	Perturbative approach to entanglement generation in QFT using the S matrix. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 365301.	0.7	3
10	Measuring QED cross sections via entanglement. Physical Review D, 2019, 100, .	1.6	7
11	Gauge covariant approach to the electroweak interactions of mesons in the Nambuâ€“Jona-Lasinio model with spin-1 states. Modern Physics Letters A, 2019, 34, 1950301.	0.5	2
12	Quark Mass Effects in the Thermodynamical Properties of an Extended (P)NJL Model. , 2019, , .		0
13	Hadronic electroweak current and Ï€â^'a1 mixing. Physical Review D, 2018, 98, .	1.6	4
14	Supercurrent anomaly and gauge invariance in the N=1 supersymmetric Yang-Mills theory. Physical Review D, 2018, 98, .	1.6	5
15	Thermodynamical properties of strongly interacting matter in a model with explicit chiral symmetry breaking interactions. Physical Review D, 2018, 98, .	1.6	5
16	On the Bose symmetry and the left- and right-chiral anomalies. European Physical Journal C, 2018, 78, 1.	1.4	10
17	Masses of the lowest spin-0 and spin-1 meson nonets: Explicit symmetry breaking effects. Physical Review D, 2017, 95, .	1.6	6
18	A general framework to diagonalize vectorâ€“scalar and axial-vectorâ€“pseudoscalar transitions in the effective meson Lagrangian. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 277-282.	1.5	14

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19	To $${d}$$ d , or not to $${d}$$ d : recent developments and comparisons of regularization schemes. European Physical Journal C, 2017, 77, 471.	1.4	88
20	Spin 1 Low-lying Meson Spectra and the Subtle Link to the Spin 0 Mesons. Acta Physica Polonica B, Proceedings Supplement, 2017, 10, 951.	0.0	0
21	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>I</mml:mi><mml:mn>5</mml:mn></mml:msub></mml:math>algebra ambiguities in Feynman amplitudes: Momentum routing invariance and anomalies in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>D</mml:mi><mml:mo>=</mml:mo><mml:mn>4</mml:mn></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>D</mml:mi><mml:mo><</mml:mo>	1.6	13
22	Ï€0â^Î·â€²mixing in a generalized multiquark interaction scheme. Physical Review D, 2016, 93, .	1.6	10
23	Nonuniform phases in the â€™t Hooft extended Nambuâ€“Jona-Lasinio model. AIP Conference Proceedings, 2016, , .	0.3	0
24	Subtleties in the beta-function calculation of $$N=1$$ N = 1 supersymmetric gauge theories. European Physical Journal C, 2016, 76, 1.	1.4	9
25	Light Quark Mass Differences in the $pi ^0$--$eta $--$eta '$ System. Acta Physica Polonica B, Proceedings Supplement, 2016, 9, 413.	0.0	1
26	Strange quark matter in the presence of explicit symmetry breaking interactions. Physical Review D, 2015, 91, .	1.6	17
27	The T–$mu $ Phase Diagram of the Nambu–Jona-Lasinio Model in the Presence of Explicit Symmetry-breaking Interactions. Acta Physica Polonica B, Proceedings Supplement, 2015, 8, 199.	0.0	1
28	Non-uniform Phases in a Three-flavour 't Hooft Extended Nambu–Jona-Lasinio Model. Acta Physica Polonica B, Proceedings Supplement, 2015, 8, 191.	0.0	0
29	The 3 Flavor Nambu–Jona-Lasinio with Explicit Symmetry Breaking Interactions: Scalar and Pseudoscalar Spectra andobreakspace {}Decays. Acta Physica Polonica B, Proceedings Supplement, 2015, 8, 183.	0.0	3
30	Nonuniform phases in a three-flavor Nambuâ€“Jona-Lasinio model. Physical Review D, 2014, 89, .	1.6	17
31	Guises and disguises of quadratic divergences. Annals of Physics, 2014, 351, 751-772.	1.0	12
32	Naturalness and Theoretical Constraints on the Higgs Boson Mass. International Journal of Theoretical Physics, 2013, 52, 3494-3503.	0.5	8
33	Light quark masses in multi-quark interactions. European Physical Journal A, 2013, 49, 1.	1.0	22
34	Effective multiquark interactions with explicit breaking of chiral symmetry. Physical Review D, 2013, 88, .	1.6	20
35	Susceptibilities in the PNJL Model with 8-Quark Interactions and Comparison with lQCD. Acta Physica Polonica B, Proceedings Supplement, 2013, 6, 457.	0.0	0
36	Role of Current Quark Mass Dependent Multi-quark Interactions in Low Lying Meson Mass Spectra. Acta Physica Polonica B, Proceedings Supplement, 2013, 6, 757.	0.0	0

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37	Extended NJL Model with Eight Quark Interactions. Progress of Theoretical Physics Supplement, 2012, 193, 50-52.	0.2	0
38	Momentum routing invariance in Feynman diagrams and quantum symmetry breakings. Physical Review D, 2012, 86, .	1.6	18
39	THERMODYNAMIC POTENTIAL WITH CORRECT ASYMPTOTICS FOR PNJL MODEL. International Journal of Modern Physics A, 2012, 27, 1250060.	0.5	20
40	PNJL Model with Eight Quark Interactions. Progress of Theoretical Physics Supplement, 2012, 193, 46-49.	0.2	0
41	Title is missing!. Acta Physica Polonica B, Proceedings Supplement, 2012, 5, 1171.	0.0	2
42	Regularization independent analysis of the origin of two loop contributions to N=1 Super Yangâ€“Mills beta function. European Physical Journal C, 2011, 71, 1.	1.4	22
43	Eight-quark interactions as a chiral thermometer. Indian Journal of Physics, 2011, 85, 813-818.	0.9	0
44	ULTRAVIOLET AND INFRARED DIVERGENCES IN IMPLICIT REGULARIZATION: A CONSISTENT APPROACH. Modern Physics Letters A, 2011, 26, 289-302.	0.5	9
45	The Polyakov-Nambu-Jona-Lasinio model with six and eight quark interactions. , 2011, , .		0
46	The phase diagram in the SU(3) Nambu-Jona-Lasinio model with â€™t Hooft and eight-quark interactions. , 2010, , .		2
47	Phase diagram for the Nambuâ€“Jona-Lasinio model with â€™t Hooft and eight-quark interactions. Physical Review D, 2010, 81, .	1.6	30
48	Quadrupole polarizabilities of the pion in the Nambuâ€“Jona-Lasinio model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 681, 147-150.	1.5	3
49	OZI violating eight-quark interactions as a thermometer for chiral transitions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 270-274.	1.5	23
50	Dispersion and uncertainty in multislit matter wave diffraction. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 1485-1490.	1.2	9
51	Gauge invariance and the CPT and Lorentz violating induced Chernâ€“Simons-like term in extended QED. European Physical Journal C, 2008, 56, 571-578.	1.4	68
52	NJL with eight quark interactions: Chiral phases at finite T. AIP Conference Proceedings, 2008, , .	0.3	0
53	Effects of Quark Interactions on Dynamical Chiral Symmetry Breaking by a Magnetic Field. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2008, , .	0.5	5
54	Stable Multiquark Interactions. AIP Conference Proceedings, 2007, , .	0.3	0

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55	Effects of eight-quark interactions on the hadronic vacuum and mass spectra of light mesons. Annals of Physics, 2007, 322, 2021-2054.	1.0	56
56	Lowering the critical temperature with eight-quark interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 646, 91-94.	1.5	31
57	Dynamical chiral symmetry breaking by a magnetic field and multi-quark interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 650, 262-267.	1.5	34
58	Analytic perturbation theory versus expansion in the Grossâ€“Neveu model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 653, 346-349.	1.5	4
59	Event-by-event fluctuations of transverse momentum and multiparticle clusters in relativistic heavy-ion collisions. Brazilian Journal of Physics, 2007, 37, .	0.7	2
60	Aspects of UA(1) breaking in the Nambu and Jona-Lasinio model. Annals of Physics, 2006, 321, 2504-2534.	1.0	19
61	Multi-quark interactions with a globally stable vacuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 634, 48-54.	1.5	72
62	Event-by-event <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	1.5	21
63	Stationary phase corrections in the process of bosonization of multi-quark interactions. European Physical Journal C, 2006, 46, 225-233.	1.4	24
64	The role of hidden ambiguities in the linear sigma model with fermions. Nuclear Physics A, 2006, 769, 53-70.	0.6	17
65	SYMMETRIES AND AMBIGUITIES IN THE LINEAR SIGMA MODEL WITH LIGHT QUARKS. Modern Physics Letters A, 2006, 21, 339-347.	0.5	14
66	Functional Integral Approaches to the Bosonization of Effective Multi-Quark Interactions with UA(1) Breaking. Symmetry, Integrability and Geometry: Methods and Applications (SIGMA), 2006, , .	0.5	1
67	Production of Resonances in a Thermal Model. Acta Physica Hungarica A Heavy Ion Physics, 2005, 22, 159-163.	0.4	1
68	Implications of a generalized heat kernel expansion for an effective QCD chiral Lagrangian with SU(3) and UA(1) breaking. International Journal of Modern Physics A, 2005, 20, 4599-4608.	0.5	0
69	Path integral bosonization of the â€˜t Hooft determinant: quasi-classical corrections. European Physical Journal C, 2004, 35, 223-241.	1.4	17
70	Long distance expansion for the NJL model with and breaking. Nuclear Physics A, 2004, 745, 81-103.	0.6	19
71	Thermal analysis of production of resonances in relativistic heavy-ion collisions. Physical Review C, 2003, 68, .	1.1	32
72	Generalized Heat Kernel Coefficients for a New Asymptotic Expansion. AIP Conference Proceedings, 2003, , .	0.3	0

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73	â€™t Hooft Determinant: fluctuations and the structure of the vacuum. AIP Conference Proceedings, 2003, , .	0.3	0
74	Comparing implicit, differential, dimensional, and Bogolubov-Parasiuk-Hepp-Zimmermann renormalization. Physical Review D, 2002, 65, .	1.6	30
75	Path integral bosonization of the 't Hooft determinant: fluctuations and multiple vacua. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 539, 76-84.	1.5	15
76	Implications of a new effective chiral meson Lagrangian. Nuclear Physics A, 2002, 703, 378-392.	0.6	10
77	Inverse mass expansion of the one-loop effective action. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 515, 458-462.	1.5	19
78	Ïâ†'Ï€Ï€ decay in nuclear medium. Nuclear Physics A, 2001, 696, 870-893.	0.6	4
79	Generalized proper-time approach for the case of broken isospin symmetry. Physical Review D, 2001, 63, .	1.6	27
80	Large mass invariant asymptotics of the effective action. Physical Review D, 2001, 64, .	1.6	21
81	Chiral anomaly andCPTinvariance in an implicit momentum space regularization framework. Physical Review D, 2001, 64, .	1.6	79
82	One-loop determinant of Dirac operator in non-renormalizable models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 475, 324-328.	1.5	2
83	One-loop fermion determinant with explicit chiral symmetry breaking. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 488, 299-302.	1.5	3
84	Matter-induced Ï‰â†'Ï€Ï€ decay. European Physical Journal A, 2000, 7, 287-291.	1.0	2
85	Invariant regularization of one-loop determinant in non-renormalizable models. AIP Conference Proceedings, 2000, , .	0.3	0
86	Matter-induced hadronic processes. AIP Conference Proceedings, 2000, , .	0.3	0
87	Effective chiral meson Lagrangian for the extended Nambuâ€“Jona-Lasinio model. Physical Review D, 2000, 62, .	1.6	18
88	Neutrino trapping and hybrid protoneutron star formation. Physical Review D, 2000, 62, .	1.6	6
89	Matter-induced Ï‰ â†' Ï€Ï€ decay. European Physical Journal A, 2000, 7, 287.	1.0	7
90	Meson loop corrections to the NJL model. Brazilian Journal of Physics, 1999, 29, 469-482.	0.7	1

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91	Meson properties in a renormalizable version of the NJL model. Nuclear Physics A, 1999, 652, 73-87.	0.6	9
92	Collective modes and current-algebraic sum rules in nuclear medium. Nuclear Physics A, 1998, 643, 161-188.	0.6	4
93	Current algebra and soft pionic modes in asymmetric quark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 392, 267-272.	1.5	6
94	Quark-antiquark resonances in the NJL model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 409, 483-490.	1.5	8
95	Pion Observables in the Extended NJL Model with Vector and Axial-Vector Mesons. Annals of Physics, 1996, 249, 499-531.	1.0	49
96	Low-energy dynamics of the Î³Î³ â†' Ï€Ï€ reaction in the NJL model. Nuclear Physics A, 1996, 604, 406-428.	0.6	8
97	Tunnelling at finite temperature in the LMG model. Journal of Physics A, 1996, 29, 3993-4004.	1.6	2
98	Pion, sigma and nucleon propagators in the linear ?-model. Zeitschrift FÃ¼r Physik A, 1995, 352, 197-202.	0.9	1
99	On the origin of the vector meson dominance. Nuclear Physics A, 1995, 589, 660-668.	0.6	0
100	Temperature dependence of bifurcation of equilibria in the SU(2) Lipkin model. Journal of Physics A, 1994, 27, 697-713.	1.6	6
101	Medium effects on meson properties. Nuclear Physics A, 1994, 575, 460-476.	0.6	22
102	Momentum dependent vertices ???, ??? and ??? the NJL scalar hidden by chiral symmetry. Zeitschrift FÃ¼r Physik A, 1994, 350, 229-235.	0.9	6
103	Strong and radiative meson decays in a generalized Nambu-Jona-Lasinio model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 305, 163-167.	1.5	33
104	Aspects of pseudoscalar meson production in two-photon fusion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 305, 168-172.	1.5	1
105	Thermal linear response of the chaotic maser model. Journal of Physics A, 1993, 26, 581-589.	1.6	3
106	Finite-temperature dynamics of the chaotic maser model. Journal of Physics A, 1992, 25, 2243-2252.	1.6	4
107	Four-point functions in quark flavor dynamics: meson-meson scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 253, 443-450.	1.5	34
108	Mesonic excitations in the Nambu-Jona-Lasinio quark-antiquark continuum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 241, 1-6.	1.5	17

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109	Multiparticle production in photon-photon collisions. Physical Review D, 1989, 40, 44-46.	1.6	0
110	Electromagnetic form factors in the Nambu-Jona-Lasinio model. Zeitschrift FÃ¼r Physik A, Atomic Nuclei, 1988, 331, 75-82.	0.3	13
111	On the role of quantum tunnelling and statistical effects in the liquid gas phase transition of hot nuclei. Nuclear Physics A, 1988, 484, 295-314.	0.6	11
112	Pion electromagnetic polarizability and chiral models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 205, 16-21.	1.5	37
113	The absorptive part of the nucleus-nucleus potential in a semiclassical approach. Zeitschrift FÃ¼r Physik A, Atomic Nuclei, 1987, 328, 431-444.	0.3	0
114	Nuclear friction and lifetime of induced fission. Physical Review C, 1986, 33, 954-968.	1.1	83
115	The method of virtual quanta applied to pion production in heavy ion collisions. Nuclear Physics A, 1986, 454, 746-760.	0.6	9
116	On the evaluation of semiclassical nuclear many-particle many-hole level densities. Nuclear Physics A, 1986, 456, 109-133.	0.6	18
117	Bubble formation in hot nuclei induced by statistical fluctuations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 182, 239-241.	1.5	11
118	ON THE ROLE OF QUANTUM AND STATISTICAL EFFECTS IN THE LIQUID GAS PHASE TRANSITION OF HOT NUCLEI. Journal De Physique Colloque, 1986, 47, C4-423-C4-426.	0.2	0
119	Time-dependent excitation of the LMG nucleus in SchrÃ¶dinger and TDSHF theories. Nuclear Physics A, 1985, 440, 62-88.	0.6	1
120	The temperature dependence of the optical model potential and of the nucleon mean free path. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 161, 211-216.	1.5	17
121	Coherent Ï€-production in subthreshold nucleus-nucleus collisions. Lecture Notes in Physics, 1982, , 443-449.	0.3	0
122	Coherent Ï€â^' production in He3 + Li6 â†' Ï€â^' + X at 303 MeV/N. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 109, 338-340.	1.5	22
123	Momentum distributions in nuclei measured with relativistic heavy ions. Nuclear Physics A, 1982, 382, 542-550.	0.6	7
124	Application of a fusion model using collective variables and microscopically related mass parameters. Nuclear Physics A, 1982, 391, 505-519.	0.6	2
125	Cross sections and reaction rates forNa23(p,Ân)Mg23,Al27(p,Ân)Si27,Al27(Î±,Ân)P30,Si29(Î±,Ân)S32, andSi30(Î±,Ân)S33. Physical Review C, 1978, 18, 1566-1576.	1.1	27