

Massimo Blasone

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.

126
papers

2,049
citations

25
h-index

40
g-index

133
ext. papers

2,255
ext. citations

2.2
avg, IF

5.29
L-index

| # | Paper | IF | Citations |
|-----|--|-----|-----------|
| 126 | Quantum Field Theory of Fermion Mixing. <i>Annals of Physics</i> , 1995 , 244, 283-311 | 2.5 | 165 |
| 125 | The exact formula for neutrino oscillations. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999 , 451, 140-145 | 4.2 | 100 |
| 124 | Dissipation and quantization. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001 , 287, 205-210 | 2.3 | 86 |
| 123 | Quantum Field Theory and Its Macroscopic Manifestations 2011 , | | 84 |
| 122 | Quantum field theory of boson mixing. <i>Physical Review D</i> , 2001 , 63, | 4.9 | 79 |
| 121 | Quantum field theory of three flavor neutrino mixing and oscillations with CP violation. <i>Physical Review D</i> , 2002 , 66, | 4.9 | 75 |
| 120 | Hierarchies of geometric entanglement. <i>Physical Review A</i> , 2008 , 77, | 2.6 | 72 |
| 119 | Neutrino mixing contribution to the cosmological constant. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004 , 323, 182-189 | 2.3 | 71 |
| 118 | Modified Unruh effect from generalized uncertainty principle. <i>European Physical Journal C</i> , 2018 , 78, 728 | 4.2 | 66 |
| 117 | Entanglement in neutrino oscillations. <i>Europhysics Letters</i> , 2009 , 85, 50002 | 1.6 | 63 |
| 116 | Dissipation and Topologically Massive Gauge Theories in the Pseudo-Euclidean Plane. <i>Annals of Physics</i> , 1996 , 252, 115-132 | 2.5 | 50 |
| 115 | Remarks on the neutrino oscillation formula. <i>Physical Review D</i> , 1999 , 60, | 4.9 | 39 |
| 114 | Currents and charges for mixed fields. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001 , 517, 471-475 | 4.2 | 38 |
| 113 | Multipartite entangled states in particle mixing. <i>Physical Review D</i> , 2008 , 77, | 4.9 | 37 |
| 112 | Nonthermal signature of the Unruh effect in field mixing. <i>Physical Review D</i> , 2017 , 96, | 4.9 | 36 |
| 111 | Lepton charge and neutrino mixing in pion decay processes. <i>Physical Review D</i> , 2005 , 72, | 4.9 | 36 |
| 110 | Quantization, group contraction and zero point energy. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 310, 393-399 | 2.3 | 36 |

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| 109 | Neutrino oscillations from relativistic flavor currents. <i>Physical Review D</i> , 2003 , 67, | 4.9 | 36 |
| 108 | Role of neutrino mixing in accelerated proton decay. <i>Physical Review D</i> , 2018 , 97, | 4.9 | 33 |
| 107 | Casimir effect in Post-Newtonian gravity with Lorentz-violation. <i>European Physical Journal C</i> , 2018 , 78, 1 | 4.2 | 29 |
| 106 | Neutrino mixing, flavor states and dark energy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008 , 588, 272-275 ^{1,2} | | 26 |
| 105 | Casimir effect for mixed fields. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018 , 786, 278-282 | 4.2 | 26 |
| 104 | Heuristic derivation of Casimir effect in minimal length theories. <i>International Journal of Modern Physics D</i> , 2020 , 29, 2050011 | 2.2 | 25 |
| 103 | A field-theoretical approach to entanglement in neutrino mixing and oscillations. <i>Europhysics Letters</i> , 2014 , 106, 30002 | 1.6 | 25 |
| 102 | Dissipation and quantization for composite systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 4106-4112 | 2.3 | 25 |
| 101 | Phase Coherence in Quantum Brownian Motion. <i>Annals of Physics</i> , 1998 , 267, 61-74 | 2.5 | 25 |
| 100 | Particle mixing, flavor condensate and dark energy. <i>Progress in Particle and Nuclear Physics</i> , 2010 , 64, 451-453 | 10.6 | 24 |
| 99 | Path-integral approach to 't Hooft's derivation of quantum physics from classical physics. <i>Physical Review A</i> , 2005 , 71, | 2.6 | 24 |
| 98 | Bateman's dual system revisited: quantization, geometric phase and relation with the ground-state energy of the linear harmonic oscillator. <i>Annals of Physics</i> , 2004 , 312, 354-397 | 2.5 | 24 |
| 97 | Berry phase for oscillating neutrinos. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999 , 466, 262-266 | 4.2 | 21 |
| 96 | Mixing and oscillations of neutral particles in quantum field theory. <i>Physical Review D</i> , 2004 , 69, | 4.9 | 20 |
| 95 | Non-thermal Unruh radiation for flavour neutrinos. <i>Journal of Physics: Conference Series</i> , 2018 , 956, 012021 | 2.1 | 19 |
| 94 | Neutrino mixing and Lorentz invariance. <i>Europhysics Letters</i> , 2005 , 70, 600-606 | 1.6 | 19 |
| 93 | Squeezed neutrino oscillations in quantum field theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995 , 362, 91-96 | 4.2 | 19 |
| 92 | On the role of rotations and Bogoliubov transformations in neutrino mixing. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016 , 761, 104-110 | 4.2 | 19 |

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| 91 | On the (beta)-decay of the accelerated proton and neutrino oscillations: a three-flavor description with CP violation. <i>European Physical Journal C</i> , 2020 , 80, 1 | 4.2 | 18 |
| 90 | ON FLAVOR CONSERVATION IN WEAK INTERACTION DECAYS INVOLVING MIXED NEUTRINOS. <i>International Journal of Modern Physics A</i> , 2010 , 25, 4179-4194 | 1.2 | 18 |
| 89 | Neutrino oscillations in Unruh radiation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 800, 135083 | 4.2 | 18 |
| 88 | Flavor entanglement in neutrino oscillations in the wave packet description. <i>Europhysics Letters</i> , 2015 , 112, 20007 | 1.6 | 17 |
| 87 | Non-cyclic phases for neutrino oscillations in quantum field theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009 , 674, 73-79 | 4.2 | 17 |
| 86 | Quantum mechanics of the damped harmonic oscillator. <i>Canadian Journal of Physics</i> , 2002 , 80, 645-660 | 1.1 | 17 |
| 85 | Non-abelian gauge structure in neutrino mixing. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 697, 238-245 | 4.2 | 16 |
| 84 | Quantum behavior of deterministic systems with information loss: Path integral approach. <i>Annals of Physics</i> , 2005 , 320, 468-486 | 2.5 | 15 |
| 83 | Neutrino oscillations in accelerated frames. <i>Europhysics Letters</i> , 2018 , 124, 51001 | 1.6 | 14 |
| 82 | Functional integrals and inequivalent representations in Quantum Field Theory. <i>Annals of Physics</i> , 2017 , 383, 207-238 | 2.5 | 13 |
| 81 | Global Dirac bispinor entanglement under Lorentz boosts. <i>Physical Review A</i> , 2018 , 97, | 2.6 | 13 |
| 80 | 't Hooft's quantum determinism: path integral viewpoint. <i>Brazilian Journal of Physics</i> , 2005 , 35, 497-502 | 1.2 | 13 |
| 79 | Flavor-energy uncertainty relations for neutrino oscillations in quantum field theory. <i>Physical Review D</i> , 2019 , 99, | 4.9 | 13 |
| 78 | Dynamical generation of field mixing via flavor vacuum condensate. <i>Physical Review D</i> , 2019 , 100, | 4.9 | 13 |
| 77 | Quantum Limit of Deterministic Theories. <i>Journal of the Physical Society of Japan</i> , 2003 , 72, 50-53 | 1.5 | 12 |
| 76 | Equivalence principle violation at finite temperature in scalar-tensor gravity. <i>European Physical Journal Plus</i> , 2019 , 134, 1 | 3.1 | 11 |
| 75 | Time-energy uncertainty relation for neutrino oscillations in curved spacetime. <i>Classical and Quantum Gravity</i> , 2020 , 37, 155004 | 3.3 | 11 |
| 74 | Quantum transitions and quantum entanglement from Dirac-like dynamics simulated by trapped ions. <i>Physical Review A</i> , 2016 , 93, | 2.6 | 10 |

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| 73 | Unified formalism for Thermal Quantum Field Theories: A geometric viewpoint. <i>Annals of Physics</i> , 2018 , 397, 213-233 | 2.5 | 10 |
| 72 | Boson field mixing in Rindler spacetime. <i>Journal of Physics: Conference Series</i> , 2015 , 631, 012053 | 0.3 | 10 |
| 71 | Lorentz invariance for mixed neutrinos. <i>Brazilian Journal of Physics</i> , 2005 , 35, 447-454 | 1.2 | 10 |
| 70 | A framework for dynamical generation of flavor mixing. <i>Journal of Physics: Conference Series</i> , 2014 , 538, 012003 | 0.3 | 9 |
| 69 | Physical flavor neutrino states. <i>Journal of Physics: Conference Series</i> , 2011 , 306, 012037 | 0.3 | 9 |
| 68 | On entanglement in neutrino mixing and oscillations. <i>Journal of Physics: Conference Series</i> , 2010 , 237, 012007 | 0.3 | 9 |
| 67 | Heuristic derivation of the Casimir effect from Generalized Uncertainty Principle. <i>Journal of Physics: Conference Series</i> , 2019 , 1275, 012024 | 0.3 | 8 |
| 66 | Entanglement in a QFT Model of Neutrino Oscillations. <i>Advances in High Energy Physics</i> , 2014 , 2014, 1-6 | 1 | 8 |
| 65 | Can quantum mechanics be an emergent phenomenon?. <i>Journal of Physics: Conference Series</i> , 2009 , 174, 012034 | 0.3 | 8 |
| 64 | On flavor violation for massive and mixed neutrinos. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2009 , 188, 37-39 | | 8 |
| 63 | Dissipation, Emergent Quantization, and Quantum Fluctuations. <i>Lecture Notes in Physics</i> , 2004 , 151-163 | 0.8 | 6 |
| 62 | Topological Defects as Inhomogeneous Condensates in Quantum Field Theory: Kinks in (1+1) Dimensional \mathbb{Z}_2 Theory. <i>Annals of Physics</i> , 2002 , 295, 230-260 | 2.5 | 6 |
| 61 | q-generalized Tsallis thermostatics in Unruh effect for mixed fields. <i>Physical Review D</i> , 2021 , 104, | 4.9 | 6 |
| 60 | Inverse β -decay: a twin-model with boson fields. <i>Journal of Physics: Conference Series</i> , 2019 , 1226, 012027 | 0.3 | 5 |
| 59 | Flavor mixing transformations for a uniformly accelerated observer. <i>Journal of Physics: Conference Series</i> , 2017 , 880, 012043 | 0.3 | 5 |
| 58 | Entanglement in Quantum Field Theory: particle mixing and oscillations. <i>Journal of Physics: Conference Series</i> , 2013 , 442, 012070 | 0.3 | 5 |
| 57 | Discharge time of a cylindrical leaking bucket. <i>European Journal of Physics</i> , 2015 , 36, 035017 | 0.8 | 4 |
| 56 | Non-relativistic neutrinos and the weak equivalence principle apparent violation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020 , 811, 135883 | 4.2 | 4 |

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| 55 | Unlocking neutrino mysteries via the inverse decay. <i>Journal of Physics: Conference Series</i> , 2020 , 1548, 012038 | 0.3 | 4 |
| 54 | Dynamical generation of three flavor mixing. <i>Journal of Physics: Conference Series</i> , 2019 , 1194, 012014 | 0.3 | 4 |
| 53 | Nambu-Goldstone dynamics and generalized coherent-state functional integrals. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012 , 45, 244009 | 2 | 4 |
| 52 | Geometric measures of multipartite entanglement in finite-size spin chains. <i>Physica Scripta</i> , 2010 , T140, 014016 | 2.6 | 4 |
| 51 | Flavor-vacuum entanglement in boson mixing. <i>Physical Review A</i> , 2021 , 103, | 2.6 | 4 |
| 50 | Effects of Lorentz boosts on Dirac bispinor entanglement. <i>Journal of Physics: Conference Series</i> , 2018 , 1071, 012001 | 0.3 | 4 |
| 49 | Inequivalent representations in the functional integral framework. <i>Journal of Physics: Conference Series</i> , 2017 , 804, 012006 | 0.3 | 3 |
| 48 | Bilayer graphene lattice-layer entanglement in the presence of non-Markovian phase noise. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 3 |
| 47 | Neutrino flavor entanglement. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2013 , 237-238, 320-322 | | 3 |
| 46 | Generalized generating functional for mixed-representation Green's functions: A quantum-mechanical approach. <i>Physical Review A</i> , 2017 , 96, | 2.6 | 3 |
| 45 | Disentangling mass and angle dependence in neutrino mixing. <i>Journal of Physics: Conference Series</i> , 2015 , 626, 012026 | 0.3 | 3 |
| 44 | Multipartite geometric entanglement in finite size XY model. <i>Journal of Physics: Conference Series</i> , 2009 , 174, 012064 | 0.3 | 3 |
| 43 | Unde venis quantum mechanics?. <i>Journal of Physics: Conference Series</i> , 2007 , 67, 012046 | 0.3 | 3 |
| 42 | A note on oscillating neutrino states in quantum field theory. <i>Modern Physics Letters A</i> , 2020 , 35, 2050313 | 3 | 3 |
| 41 | Some nontrivial aspects of Poincaré and CPT invariance of flavor vacuum. <i>Physical Review D</i> , 2020 , 102, | 4.9 | 3 |
| 40 | Quantum nonlocality in extended theories of gravity. <i>Physical Review D</i> , 2021 , 103, | 4.9 | 3 |
| 39 | Dynamics of zero-point energy and two-slit phenomena for photons. <i>Physica Scripta</i> , 2019 , 94, 115505 | 2.6 | 2 |
| 38 | Flavor neutrino states for pedestrians. <i>Journal of Physics: Conference Series</i> , 2019 , 1275, 012023 | 0.3 | 2 |

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| 37 | Remarks on the Unruh effect with mixed neutrinos. <i>Journal of Physics: Conference Series</i> , 2019 , 1275, 012063 | 0.3 | 2 |
| 36 | Lorentz boosts of bispinor Bell-like states. <i>Journal of Physics: Conference Series</i> , 2019 , 1275, 012026 | 0.3 | 2 |
| 35 | Connections between 't Hooft beables and canonical descriptions of dissipative systems. <i>Journal of Physics: Conference Series</i> , 2017 , 880, 012050 | 0.3 | 2 |
| 34 | A simple mathematical description of an off-grid hybrid solar/wind power generating system. <i>European Journal of Physics</i> , 2013 , 34, 763-771 | 0.8 | 2 |
| 33 | Neutrino mixing as a source for cosmological constant. <i>Brazilian Journal of Physics</i> , 2005 , 35, 455-561 | 1.2 | 2 |
| 32 | Nonextensive Tsallis statistics in Unruh effect for Dirac neutrinos. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 2 |
| 31 | Single particle entanglement of a massive relativistic particle: Dirac bispinors and spin 1/2 states. <i>Journal of Physics: Conference Series</i> , 2020 , 1612, 012003 | 0.3 | 2 |
| 30 | Chiral oscillations in the non-relativistic regime. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 2 |
| 29 | Lorentz invariant quantum concurrence for $SU(2)$ and $SU(2)$ spin-parity states. <i>European Physical Journal Plus</i> , 2020 , 135, 1 | 3.1 | 1 |
| 28 | On the emergence of flavor mixing through interaction with an external vector field. <i>Journal of Physics: Conference Series</i> , 2012 , 380, 012022 | 0.3 | 1 |
| 27 | 't Hooft Quantization for Interacting Systems. <i>Journal of Physics: Conference Series</i> , 2012 , 343, 012110 | 0.3 | 1 |
| 26 | On normal ordering and canonical transformations in thermal field theory. <i>Journal of Physics A</i> , 1999 , 32, 1185-1195 | | 1 |
| 25 | Gravitational Effects on Neutrino Decoherence in the Lense-Thirring Metric. <i>Universe</i> , 2021 , 7, 417 | 2.5 | 1 |
| 24 | Flavor neutrinos as unstable particles. <i>Journal of Physics: Conference Series</i> , 2020 , 1612, 012004 | 0.3 | 1 |
| 23 | Wave packet approach to quantum correlations in neutrino oscillations. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 1 |
| 22 | Dynamical generation of flavor vacuum and Lorentz invariance. <i>Journal of Physics: Conference Series</i> , 2019 , 1416, 012005 | 0.3 | 1 |
| 21 | Helicity rotation induced by Lorentz boosts. <i>International Journal of Quantum Information</i> , 2019 , 17, 1941005 | 1.0 | 1 |
| 20 | Schwinger-Dyson equations and flavor mixing. <i>Journal of Physics: Conference Series</i> , 2018 , 1071, 012003 | 0.3 | 1 |

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| 19 | Bose-Einstein correlations in thermal field theory. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 1995 , 1, 249-262 | | 1 |
| 18 | A Physicist's view on Chopin's Études. <i>European Physical Journal: Special Topics</i> , 2017 , 226, 2715-2728 | 2.3 | 0 |
| 17 | CP symmetry and thermal effects on Dirac bi-spinor spin-parity local correlations. <i>Annals of Physics</i> , 2018 , 395, 301-316 | 2.5 | 0 |
| 16 | Lepton-Antineutrino Entanglement and Chiral Oscillations. <i>Universe</i> , 2021 , 7, 293 | 2.5 | 0 |
| 15 | Dissipation, coherence and entanglement. <i>International Journal of Geometric Methods in Modern Physics</i> , 2020 , 17, 2040005 | 1.5 | |
| 14 | Generalized generating functional for mixed-representation Green's functions: Coherent-state path integral representation. <i>Journal of Physics: Conference Series</i> , 2018 , 965, 012008 | 0.3 | |
| 13 | Phase space picture of neutrino mixing and oscillations. <i>Journal of Physics: Conference Series</i> , 2017 , 880, 012061 | 0.3 | |
| 12 | Generating functional for the Green's functions of a two-flavor bosonic model. <i>Journal of Physics: Conference Series</i> , 2017 , 880, 012051 | 0.3 | |
| 11 | Mathematical model of an off-grid hybrid solar and wind power generating system. <i>EPJ Web of Conferences</i> , 2014 , 79, 01008 | 0.3 | |
| 10 | DETERMINISM BENEATH COMPOSITE QUANTUM SYSTEMS. <i>International Journal of Modern Physics A</i> , 2009 , 24, 3652-3659 | 1.2 | |
| 9 | Multipartite entanglement in neutrino oscillations. <i>Journal of Physics: Conference Series</i> , 2009 , 174, 012063 | | |
| 8 | On neutrino mixing, Lorentz invariance and entanglement. <i>Journal of Physics: Conference Series</i> , 2007 , 67, 012031 | 0.3 | |
| 7 | Quantum Field Theory of Particle Mixing and Oscillations 2004 , 105-128 | | |
| 6 | Dynamical Generation of Flavour Vacuum. <i>Springer Proceedings in Mathematics and Statistics</i> , 2020 , 497-502 | | |
| 5 | Quantum Fields with Topological Defects 2006 , 221-229 | | |
| 4 | Chiral symmetry-breaking schemes and dynamical generation of masses and field mixing. <i>Journal of Physics: Conference Series</i> , 2020 , 1586, 012009 | 0.3 | |
| 3 | Zero-point energy and photon spin-induced diffraction phenomena. <i>International Journal of Geometric Methods in Modern Physics</i> , 2020 , 17, 2040006 | 1.5 | |
| 2 | On the canonical quantization of the electromagnetic field and the emergence of gauge invariance. <i>Journal of Physics: Conference Series</i> , 2018 , 1071, 012002 | 0.3 | |

- 1 Unruh Effect for Mixed Neutrinos and the KMS Condition. *Universe*, **2022**, 8, 306 2.5