Mariafelicia De Laurentis

List of Publications by Year
in descending order

103 papers	14,399 citations	61984 43 h-index	38395 95 g-index
105 all docs	105 docs citations	105 times ranked	4613 citing authors

#	Article	IF	Citations
1	Extended Theories of Gravity. Physics Reports, 2011, 509, 167-321.	25.6	2,457
2	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L1.	8.3	2,264
3	f(T) teleparallel gravity and cosmology. Reports on Progress in Physics, 2016, 79, 106901.	20.1	923
4	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. Astrophysical Journal Letters, 2019, 875, L6.	8.3	897
5	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. Astrophysical Journal Letters, 2019, 875, L5.	8.3	814
6	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. Astrophysical Journal Letters, 2019, 875, L4.	8.3	806
7	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. Astrophysical Journal Letters, 2019, 875, L2.	8.3	618
8	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. Astrophysical Journal Letters, 2022, 930, L12.	8.3	568
9	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. Astrophysical Journal Letters, 2019, 875, L3.	8.3	519
10	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. Astrophysical Journal Letters, 2021, 910, L13.	8.3	297
11	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. Astrophysical Journal Letters, 2021, 910, L12.	8.3	215
12	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. Astrophysical Journal Letters, 2022, 930, L17.	8.3	215
13	Mass-radius relation for neutron stars in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 252 Td (stretchy="false")	4.7	207
14	Cosmological inflation in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>F</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo>,</mml:mo><mml:mi) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 211 Td (math Review D, 2015, 91, .	4.7	187
15	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. Astrophysical Journal Letters, 2022, 930, L16.	8.3	187
16	The current ability to test theories of gravity with black hole shadows. Nature Astronomy, 2018, 2, 585-590.	10.1	180
17	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. Astrophysical Journal, Supplement Series, 2019, 243, 26.	7.7	175
18	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. Astrophysical Journal Letters, 2022, 930, L14.	8.3	163

#	Article	IF	Citations
19	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. Astrophysical Journal Letters, 2022, 930, L13.	8.3	142
20	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. Astrophysical Journal Letters, 2022, 930, L15.	8.3	137
21	No further gravitational wave modes in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>F</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>T</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math> gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 727, 194-198.	4.1	111
22	Axially symmetric solutions in f (R)-gravity. Classical and Quantum Gravity, 2010, 27, 165008.	4.0	104
23	Massive, massless and ghost modes of gravitational waves from higher-order gravity. Astroparticle Physics, 2010, 34, 236-244.	4.3	97
24	Cosmographic Constraints and Cosmic Fluids. Galaxies, 2013, 1, 216-260.	3.0	93
25	Noether symmetry approach in Gaussâ€“Bonnet cosmology. Modern Physics Letters A, 2014, 29, 1450164.	1.2	77
26	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. Astrophysical Journal Letters, 2021, 910, L14.	8.3	67
27	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. Nature Astronomy, 2021, 5, 1017-1028.	10.1	65
28	Invariant solutions and Noether symmetries in hybrid gravity. Physical Review D, 2015, 91, .	4.7	64
29	Constraining Æ'(R) Gravity by the Large-Scale Structure. Universe, 2015, 1, 123-157.	2.5	61
30	Noether symmetries in Gaussâ€“Bonnet-teleparallel cosmology. European Physical Journal C, 2016, 76, 629.	3.9	61
31	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2021, 911, L11.	8.3	56
32	Testing fâ€‰(R) theories using the first time derivative of the orbital period of the binary pulsars. Monthly Notices of the Royal Astronomical Society, 2013, 431, 741-748.	4.4	55
33	Newtonian, Post-Newtonian and Parametrized Post-Newtonian limits of f(R, ?) gravity. International Journal of Geometric Methods in Modern Physics, 2014, 11, 1450082.	2.0	55
34	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. Astronomy and Astrophysics, 2020, 640, A69.	5.1	54
35	Higher-order gravity and the cosmological background of gravitational waves. Astroparticle Physics, 2008, 29, 125-129.	4.3	51
36	Monitoring the Morphology of M87* in 2009â€“2017 with the Event Horizon Telescope. Astrophysical Journal, 2020, 901, 67.	4.5	51

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37	Noether symmetries in extended gravity quantum cosmology. International Journal of Geometric Methods in Modern Physics, 2014, 11, 1460004.	2.0	48
38	Connecting early and late universe by f(R) gravity. International Journal of Modern Physics D, 2015, 24, 1541002.	2.1	48
39	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. Astrophysical Journal, 2020, 897, 139.	4.5	47
40	Reconstructing wormhole solutions in curvature based Extended Theories of Gravity. European Physical Journal C, 2021, 81, 1.	3.9	47
41	Observational constraints on Gaussâ€“Bonnet cosmology. International Journal of Modern Physics D, 2018, 27, 1850084.	2.1	46
42	General relativistic Poynting-Robertson effect to diagnose wormholes existence: Static and spherically symmetric case. Physical Review D, 2020, 101, .	4.7	45
43	Analysis of the Yukawa gravitational potential in f(R) gravity. I. Semiclassical periastron advance. Physical Review D, 2018, 97, .	4.7	44
44	Analysis of the Yukawa gravitational potential in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 457 Td (stretchy="false">)</mml:m 2018, 97, .	4.7	44
45	Verification of Radiative Transfer Schemes for the EHT. Astrophysical Journal, 2020, 897, 148.	4.5	44
46	Test-particle dynamics in general spherically symmetric black hole spacetimes. Physical Review D, 2018, 97, .	4.7	43
47	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. Astrophysical Journal, 2021, 912, 35.	4.5	43
48	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2022, 930, L19.	8.3	43
49	Testing wormhole solutions in extended gravity through the Poynting-Robertson effect. Physical Review D, 2021, 103, .	4.7	39
50	A Bird's Eye View of f (R)-Gravity. The Open Astronomy Journal, 2010, 3, 49-72.	1.6	39
51	Orbital precession of the S2 star in Scalarâ€“Tensorâ€“Vector Gravity. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4757-4766.	4.4	35
52	Modified gravity revealed along geodesic tracks. European Physical Journal C, 2018, 78, 916.	3.9	34
53	Epicyclic frequencies in static and spherically symmetric wormhole geometries. Physical Review D, 2021, 104, .	4.7	34
54	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 57 Td (stretchy="false">)</mml:mo S2 star around the Galactic Center massive black hole. Physical Review D, 2021, 104, .	4.7	34

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55	STOCHASTIC BACKGROUND OF RELIC SCALAR GRAVITATIONAL WAVES FROM SCALARâ€“TENSOR GRAVITY. Modern Physics Letters A, 2007, 22, 2647-2655.	1.2	29
56	GRAVITATIONAL WAVES FROM HYPERBOLIC ENCOUNTERS. Modern Physics Letters A, 2008, 23, 99-107.	1.2	29
57	Position and frequency shifts induced by massive modes of the gravitational wave background in alternative gravity. Physical Review D, 2009, 79, .	4.7	28
58	STOCHASTIC BACKGROUND OF GRAVITATIONAL WAVES "TUNED" BY f(R) GRAVITY. Modern Physics Letters A, 2007, 22, 1097-1104.	1.2	26
59	Noether symmetry approach for teleparallel-curvature cosmology. International Journal of Geometric Methods in Modern Physics, 2015, 12, 1550095.	2.0	25
60	Probing the physical and mathematical structure of f(R)-gravity by PSR J0348 + 0432. International Journal of Geometric Methods in Modern Physics, 2015, 12, 1550040.	2.0	25
61	A Bird`s Eye View of f (R)-Gravity~!2009-09-23~!2009-09-28~!2010-06-03~!. The Open Astronomy Journal, 2010, 3, 49-72.	1.6	24
62	Deriving the mass of particles from Extended Theories of Gravity in LHC era. European Physical Journal C, 2011, 71, 1.	3.9	23
63	Constraining alternative theories of gravity using GW150914 and GW151226. Physical Review D, 2016, 94, .	4.7	21
64	Selective Dynamical Imaging of Interferometric Data. Astrophysical Journal Letters, 2022, 930, L18.	8.3	21
65	On the universality of MOG weak field approximation at galaxy cluster scale. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 440-444.	4.1	20
66	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. Astrophysical Journal Letters, 2022, 930, L21.	8.3	20
67	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. Astrophysical Journal Letters, 2022, 930, L20.	8.3	20
68	MOND'S ACCELERATION SCALE AS A FUNDAMENTAL QUANTITY. Modern Physics Letters A, 2011, 26, 2677-2687.	1.2	19
69	Running coupling in electroweak interactions of leptons from f(R)-gravity with torsion. European Physical Journal C, 2012, 72, 1.	3.9	18
70	Topological invariant quintessence. Modern Physics Letters A, 2015, 30, 1550069.	1.2	18
71	Tracing the cosmic history by Gauss-Bonnet gravity. Physical Review D, 2020, 102, .	4.7	16
72	Magnetized discs and photon rings around Yukawa-like black holes. Physical Review D, 2021, 103, .	4.7	15

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73	Astrophysical structures from primordial quantum black holes. European Physical Journal C, 2010, 69, 293-303.	3.9	14
74	The affine structure of gravitational theories: Symplectic groups and geometry. International Journal of Geometric Methods in Modern Physics, 2014, 11, 1450081.	2.0	13
75	Noether symmetry approach for Diracâ€“Bornâ€“Infeld cosmology. International Journal of Geometric Methods in Modern Physics, 2015, 12, 1550065.	2.0	13
76	Curvature dark energy reconstruction through different cosmographic distance definitions. Annalen Der Physik, 2014, 526, 309-317.	2.4	11
77	Effective field theory from modified gravity with massive modes. International Journal of Geometric Methods in Modern Physics, 2015, 12, 1550004.	2.0	9
78	General relativistic electromagnetic and massive vector field effects with gamma-ray burst production. Physical Review D, 2017, 96, .	4.7	9
79	Twisted Soft Photon Hair Implants on Black Holes. Entropy, 2017, 19, 458.	2.2	9
80	Noether's stars in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 205-210.	4.1	9
81	Weak gravitational lensing by compact objects in fourth order gravity. Physical Review D, 2013, 88, .	4.7	8
82	Constraining MOdified Gravity with the S2 Star. Universe, 2022, 8, 137.	2.5	7
83	Stochastic Background of Relic Scalar Gravitational Waves tuned by Extended Gravity. Nuclear Physics, Section B, Proceedings Supplements, 2009, 194, 212-217.	0.4	6
84	PRIMORDIAL BLACK HOLES, ASTROPHYSICAL SYSTEMS AND THE EDDINGTONâ€“WEINBERG RELATION. Modern Physics Letters A, 2011, 26, 2549-2558.	1.2	6
85	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. Astrophysical Journal, 2022, 925, 13.	4.5	6
86	Radiation from charged particles due to explicit symmetry breaking in a gravitational field. International Journal of Geometric Methods in Modern Physics, 2018, 15, 1850122.	2.0	5
87	The Accurate Mass Distribution of M87, the Giant Galaxy with Imaged Shadow of Its Supermassive Black Hole, as a Portal to New Physics. Astrophysical Journal, 2022, 929, 17.	4.5	5
88	Orbits in bootstrapped Newtonian gravity. Physical Review D, 2022, 105, .	4.7	5
89	NEUTRINO OSCILLATION PHASE DYNAMICALLY INDUCED BY f(R)-GRAVITY. Modern Physics Letters A, 2010, 25, 1163-1168.	1.2	4
90	Interpreting the Dark Side of the Universe as Curvature Effects. Nuclear and Particle Physics Proceedings, 2015, 263-264, 113-118.	0.5	4

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91	Verification of f(R)-gravity in binary pulsars. EPJ Web of Conferences, 2016, 125, 03005.	0.3	4
92	The cosmological constant as an eigenvalue of the Hamiltonian constraint in a varying speed of light theory. Fortschritte Der Physik, 2017, 65, 1600108.	4.4	2
93	Tuning the stochastic background of gravitational waves with theory and observations. AIP Conference Proceedings, 2008, , .	0.4	1
94	Gravitational massive modes from extended gravity. International Journal of Geometric Methods in Modern Physics, 2016, 13, 1650034.	2.0	1
95	Metric and connections in theories of gravity. The role of equivalence principle. International Journal of Geometric Methods in Modern Physics, 2016, 13, 1640007.	2.0	1
96	Probing Gravitational Theories with Eccentric Eclipsing Detached Binary Stars. Acta Polytechnica CTU Proceedings, 2014, 1, 255-258.	0.3	0
97	EXTENDED GRAVITY: STATE OF THE ART AND PERSPECTIVES. , 2015, , .		0
98	FROM BLACK HOLE QUANTIZATION TO UNIVERSAL SCALING LAWS. , 2015, , .		0
99	Generating the Mass of Particles from Extended Theories of Gravity. Springer Proceedings in Physics, 2014, , 15-28.	0.2	0
100	Testing f(R)-Theories by Binary Pulsars. Acta Polytechnica CTU Proceedings, 2014, 1, 251-254.	0.3	0
101	An effective field theory description for extended gravity. , 2017, , .		0
102	Gravitational Physics: From Quantum to Waves. , 2018, , 357-488.		0
103	Emission of Gravitational Radiation in Scalar-Tensor and f(R)-Theories. , 2022, , 1553-1590.		0