JosÃ© Manuel RodrÃ-guez

List of Publications by Year
in descending order

126	1,196	394286	501076
papers	citations	19 h-index	28 g-index

128	128	128	264
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spectral properties of geometricâ€“arithmetic index. Applied Mathematics and Computation, 2016, 277, 142-153.	1.4	59
2	Gromov hyperbolicity through decomposition of metrics spaces II. Journal of Geometric Analysis, 2004, 14, 123-149.	0.5	48
3	Gromov hyperbolic graphs. Discrete Mathematics, 2013, 313, 1575-1585.	0.4	47
4	Gromov hyperbolicity through decomposition of metric spaces. Acta Mathematica Hungarica, 2004, 103, 107-138.	0.3	46
5	On the hyperbolicity constant in graphs. Discrete Mathematics, 2011, 311, 211-219.	0.4	46
6	Computing the hyperbolicity constant. Computers and Mathematics With Applications, 2011, 62, 4592-4595.	1.4	41
7	Gromov Hyperbolicity of Riemann Surfaces. Acta Mathematica Sinica, English Series, 2007, 23, 209-228.	0.2	37
8	Hyperbolicity and complement of graphs. Applied Mathematics Letters, 2011, 24, 1882-1887.	1.5	34
9	New Hermiteâ€“Hadamard Type Inequalities Involving Non-Conformable Integral Operators. Symmetry, 2019, 11, 1108.	1.1	32
10	General properties on Sombor indices. Discrete Applied Mathematics, 2021, 299, 87-97.	0.5	30
11	Gromov hyperbolic cubic graphs. Central European Journal of Mathematics, 2012, 10, 1141-1151.	0.7	26
12	On the Hyperbolicity Constant of Line Graphs. Electronic Journal of Combinatorics, 2011, 18, .	0.2	26
13	On Harmonic Functions on Trees. Potential Analysis, 2001, 15, 199-244.	0.4	25
14	Gromov hyperbolicity in Cartesian product graphs. Proceedings of the Indian Academy of Sciences: Mathematical Sciences, 2010, 120, 593-609.	0.2	23
15	Gromov hyperbolic equivalence of the hyperbolic and quasihyperbolic metrics in Denjoy domains. Bulletin of the London Mathematical Society, 2010, 42, 282-294.	0.4	23
16	Area growth and Green's function of Riemann surfaces. Arkiv for Matematik, 1992, 30, 83-92.	0.2	21
17	Estimates for nonlinear harmonic ``measures'' on trees. Michigan Mathematical Journal, 2001, 49, 47.	0.2	21
18	Computational and analytical studies of the RandiÄ‡ index in ErdÃ¶sâ€“RÃ©nyi models. Applied Mathematics and Computation, 2020, 377, 125137.	1.4	21

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19	Gromov hyperbolicity of Denjoy Domains. Geometriae Dedicata, 2007, 121, 221-245.	0.1	20
20	STRUCTURE THEOREMS FOR RIEMANN AND TOPOLOGICAL SURFACES. Journal of the London Mathematical Society, 2004, 69, 153-168.	0.5	19
21	Generalized Weighted Sobolev Spaces and Applications to Sobolev Orthogonal Polynomials I. Acta Applicandae Mathematicae, 2004, 80, 273-308.	0.5	18
22	Weighted Sobolev Spaces on Curves. Journal of Approximation Theory, 2002, 119, 41-85.	0.5	17
23	Gromov hyperbolicity of Denjoy domains with hyperbolic and quasihyperbolic metrics. Journal of the Mathematical Society of Japan, 2012, 64, .	0.3	16
24	CMMSE-on the first general Zagreb index. Journal of Mathematical Chemistry, 2018, 56, 1849-1864.	0.7	16
25	Small values of the hyperbolicity constant in graphs. Discrete Mathematics, 2016, 339, 3073-3084.	0.4	15
26	Analysis of the local Drude model involving the generalized fractional derivative. Optik, 2019, 193, 163008.	1.4	14
27	Uniformly Separated Sets and Gromov Hyperbolicity of Domains with the Quasihyperbolic Metric. Mediterranean Journal of Mathematics, 2011, 8, 49-67.	0.4	13
28	CMMSE: A new approximation to the geometricâ€“arithmetic index. Journal of Mathematical Chemistry, 2018, 56, 1865-1883.	0.7	13
29	Hyperbolicity in the corona and join of graphs. Aequationes Mathematicae, 2015, 89, 1311-1327.	0.4	12
30	Linear and non-linear inequalities on the inverse sum indeg index. Discrete Applied Mathematics, 2019, 258, 123-134.	0.5	12
31	THE ROLE OF FUNNELS AND PUNCTURES IN THE GROMOV HYPERBOLICITY OF RIEMANN SURFACES. Proceedings of the Edinburgh Mathematical Society, 2006, 49, 399-425.	0.2	11
32	Gromov Hyperbolicity in Strong Product Graphs. Electronic Journal of Combinatorics, 2013, 20, .	0.2	11
33	Bounds on Gromov hyperbolicity constant in graphs. Proceedings of the Indian Academy of Sciences: Mathematical Sciences, 2012, 122, 53-65.	0.2	10
34	Quasi-isometries and isoperimetric inequalities in planar domains. Journal of the Mathematical Society of Japan, 2015, 67, .	0.3	10
35	Some Properties of the Arithmeticâ€“Geometric Index. Symmetry, 2021, 13, 857.	1.1	10
36	Normalized Sombor Indices as Complexity Measures of Random Networks. Entropy, 2021, 23, 976.	1.1	10

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37	Distortion of the Hyperbolicity Constant of a Graph. Electronic Journal of Combinatorics, 2012, 19, .	0.2	10
38	Weierstrassâ€™ theorem with weights. Journal of Approximation Theory, 2004, 127, 83-107.	0.5	9
39	Cheeger isoperimetric constant of Gromov hyperbolic manifolds and graphs. Communications in Contemporary Mathematics, 2018, 20, 1750050.	0.6	9
40	On the conformable fractional logistic models. Mathematical Methods in the Applied Sciences, 2020, 43, 4156.	1.2	9
41	Bounds on the Arithmetic-Geometric Index. Symmetry, 2021, 13, 689.	1.1	9
42	On the hyperbolicity of edge-chordal and path-chordal graphs. Filomat, 2016, 30, 2599-2607.	0.2	9
43	A simple characterization of weighted Sobolev spaces with bounded multiplication operator. Journal of Approximation Theory, 2008, 153, 53-72.	0.5	8
44	Characterization of Gromov hyperbolic short graphs. Acta Mathematica Sinica, English Series, 2014, 30, 197-212.	0.2	8
45	Inequalities on the inverse degree index. Journal of Mathematical Chemistry, 2019, 57, 1524-1542.	0.7	8
46	Note on the generalized conformable derivative. Revista De La Union Matematica Argentina, 0, , 443-457.	0.0	8
47	Sobolev Spaces with Respect to Measures in Curves andÂZeros of Sobolev Orthogonal Polynomials. Acta Applicandae Mathematicae, 2008, 104, 325-353.	0.5	7
48	Computation of conformal representations of compact Riemann surfaces. Mathematics of Computation, 2010, 79, 365-365.	1.1	7
49	Zero location and asymptotic behavior for extremal polynomials with non-diagonal Sobolev norms. Journal of Approximation Theory, 2010, 162, 2225-2242.	0.5	7
50	Comparative Gromov hyperbolicity results for the hyperbolic and quasihyperbolic metrics. Complex Variables and Elliptic Equations, 2010, 55, 127-135.	0.4	7
51	Mathematical Properties of Gromov Hyperbolic Graphs. , 2010, , .		7
52	Relations between the differential and parameters in graphs. Electronic Notes in Discrete Mathematics, 2014, 46, 281-288.	0.4	7
53	ANALYSIS OF DENGUE FEVER OUTBREAK BY GENERALIZED FRACTIONAL DERIVATIVE. Fractals, 2020, 28, 2040038.	1.8	7
54	Weierstrass's Theorem in Weighted Sobolev Spaces With k Derivatives. Rocky Mountain Journal of Mathematics, 2007, 37, .	0.2	7

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55	Weighted Weierstrass' theorem with first derivatives. Journal of Mathematical Analysis and Applications, 2007, 334, 1167-1198.	0.5	6
56	The Multiplication Operator, Zero Location andÂAsymptotic for Non-diagonal Sobolev Norms. Acta Applicandae Mathematicae, 2010, 111, 205-218.	0.5	6
57	Concerning Asymptotic Behavior for Extremal Polynomials Associated to Nondiagonal Sobolev Norms. Journal of Function Spaces and Applications, 2013, 2013, 1-11.	0.5	6
58	Harmonic Index and Harmonic Polynomial on Graph Operations. Symmetry, 2018, 10, 456.	1.1	6
59	Hyperbolicity on Graph Operators. Symmetry, 2018, 10, 360.	1.1	6
60	Some results on lower bounds for topological indices. Journal of Mathematical Chemistry, 2019, 57, 1472-1495.	0.7	6
61	On the maximal general ABC index of graphs with given maximum degree. Applied Mathematics and Computation, 2020, 386, 125531.	1.4	6
62	On the Generalized Laplace Transform. Symmetry, 2021, 13, 669.	1.1	6
63	Generalized inequalities involving fractional operators of the Riemann-Liouville type. AIMS Mathematics, 2021, 7, 1470-1485.	0.7	6
64	A Kolmogorov-Szego-Krein type condition for weighted Sobolev spaces. Indiana University Mathematics Journal, 2005, 54, 575-598.	0.4	5
65	Twists and Gromov hyperbolicity of riemann surfaces. Acta Mathematica Sinica, English Series, 2011, 27, 29-44.	0.2	5
66	Structure theorem for Riemannian surfaces with arbitrary curvature. Mathematische Zeitschrift, 2012, 271, 45-62.	0.4	5
67	Gromov hyperbolicity of periodic planar graphs. Acta Mathematica Sinica, English Series, 2014, 30, 79-90.	0.2	5
68	Computing the hyperbolicity constant of a cubic graph. International Journal of Computer Mathematics, 2014, 91, 1897-1910.	1.0	5
69	Distortion of the hyperbolicity constant in minor graphs. Electronic Notes in Discrete Mathematics, 2014, 46, 57-64.	0.4	5
70	Mathematical Properties of the Hyperbolicity of Circulant Networks. Advances in Mathematical Physics, 2015, 2015, 1-11.	0.4	5
71	On a classical theorem on the diameter and minimum degree of a graph. Acta Mathematica Sinica, English Series, 2017, 33, 1477-1503.	0.2	5
72	On the geometricâ€“arithmetic index by decompositions-CMMSE. Journal of Mathematical Chemistry, 2017, 55, 1376-1391.	0.7	5

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73	Stability of the injectivity radius under quasi-isometries and applications to isoperimetric inequalities. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2018, 112, 1225-1247.	0.6	5
74	New lower bounds for the first variable Zagreb index. Discrete Applied Mathematics, 2022, 306, 166-173.	0.5	5
75	Extremal problems on the general Sombor index of a graph. AIMS Mathematics, 2022, 7, 8330-8343.	0.7	5
76	Muckenhoupt inequality with three measures and applications to Sobolev orthogonal polynomials. Journal of Mathematical Analysis and Applications, 2013, 407, 369-386.	0.5	4
77	Bounds on Gromov hyperbolicity constant. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2016, 110, 321-342.	0.6	4
78	Gromov Hyperbolicity in Mycielskian Graphs. Symmetry, 2017, 9, 131.	1.1	4
79	Escaping geodesics in Riemannian surfaces with variable negative curvature. Advances in Mathematics, 2019, 345, 928-971.	0.5	4
80	f-Polynomial on Some Graph Operations. Mathematics, 2019, 7, 1074.	1.1	4
81	Stability of the volume growth rate under quasi-isometries. Revista Matematica Complutense, 2020, 33, 231-270.	0.7	4
82	Analytical and statistical studies of Rodriguezâ€“Velazquez indices. Journal of Mathematical Chemistry, 2021, 59, 1246-1259.	0.7	4
83	Distortion of boundary sets under inner functions. II. Pacific Journal of Mathematics, 1996, 172, 49-81.	0.2	4
84	Distinctive power of the alliance polynomial for regular graphs. Electronic Notes in Discrete Mathematics, 2014, 46, 313-320.	0.4	3
85	Planarity and Hyperbolicity in Graphs. Graphs and Combinatorics, 2015, 31, 1311-1324.	0.2	3
86	Gromov Hyperbolicity of Periodic Graphs. Bulletin of the Malaysian Mathematical Sciences Society, 2016, 39, 89-116.	0.4	3
87	Mathematical Properties on the Hyperbolicity of Interval Graphs. Symmetry, 2017, 9, 255.	1.1	3
88	New lower bounds for the second variable Zagreb index. Journal of Combinatorial Optimization, 2018, 36, 194-210.	0.8	3
89	Weighted Sobolev spaces: Markov-type inequalities and duality. Bulletin of Mathematical Sciences, 2018, 8, 233-256.	0.5	3
90	Fractional model for the study of the tuberculosis in Mexico. Mathematical Methods in the Applied Sciences, 2022, 45, 10675-10688.	1.2	3

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91	Zeros of Sobolev Orthogonal Polynomials via Muckenhoupt Inequality with Three Measures. Acta Applicandae Mathematicae, 2016, 142, 9-37.	0.5	2
92	Planar Riemann surfaces with uniformly distributed cusps: parabolicity and hyperbolicity. Mathematische Nachrichten, 2017, 290, 1097-1112.	0.4	2
93	Several extremal problems on graphs involving the circumference, girth, and hyperbolicity constant. Discrete Applied Mathematics, 2019, 263, 177-194.	0.5	2
94	On the hyperbolicity constant of circular-arc graphs. Discrete Applied Mathematics, 2019, 263, 244-256.	0.5	2
95	New Bounds for Topological Indices on Trees through Generalized Methods. Symmetry, 2020, 12, 1097.	1.1	2
96	Isoperimetric Inequalities in Riemann Surfaces and Graphs. Journal of Geometric Analysis, 2021, 31, 3583-3607.	0.5	2
97	Inequalities on the Generalized ABC Index. Mathematics, 2021, 9, 1151.	1.1	2
98	Location of geodesics and isoperimetric inequalities in Denjoy domains. Proceedings of the Edinburgh Mathematical Society, 2012, 55, 245-269.	0.2	1
99	The topology of balls in Riemannian surfaces and Gromov hyperbolicity. Mathematische Zeitschrift, 2013, 275, 741-760.	0.4	1
100	Measurable diagonalization of positive definite matrices. Journal of Approximation Theory, 2014, 185, 91-97.	0.5	1
101	Graphs with small hyperbolicity constant. Electronic Notes in Discrete Mathematics, 2014, 46, 265-272.	0.4	1
102	Alliance polynomial of regular graphs. Discrete Applied Mathematics, 2017, 225, 22-32.	0.5	1
103	Hyperbolicity of Direct Products of Graphs. Symmetry, 2018, 10, 279.	1.1	1
104	On the Hyperbolicity Constant in Graph Minors. Bulletin of the Iranian Mathematical Society, 2018, 44, 481-503.	0.4	1
105	Gromov Hyperbolicity in the Cartesian Sum of Graphs. Bulletin of the Iranian Mathematical Society, 2018, 44, 837-856.	0.4	1
106	Gromov hyperbolicity in lexicographic product graphs. Proceedings of the Indian Academy of Sciences: Mathematical Sciences, 2019, 129, 1.	0.2	1
107	Domination on hyperbolic graphs. Discrete Mathematics, 2020, 343, 112094.	0.4	1
108	Gromov Hyperbolicity in Directed Graphs. Symmetry, 2020, 12, 105.	1.1	1

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109	Topological Indices and f-Polynomials on Some Graph Products. Symmetry, 2021, 13, 292.	1.1	1
110	On p-parabolicity of Riemannian manifolds and graphs. Revista Matematica Complutense, 2022, 35, 179-198.	0.7	1
111	A note on isoperimetric inequalities of Gromov hyperbolic manifolds and graphs. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2021, 115, 1.	0.6	1
112	Geometric properties of chemical graphs. International Journal of Quantum Chemistry, 2021, 121, e26798.	1.0	1
113	Gromov hyperbolicity of Denjoy domains through fundamental domains. Publicationes Mathematicae, 2012, 80, 295-310.	0.1	1
114	Stability of p â€parabolicity under quasiâ€isometries. Mathematische Nachrichten, 2022, 295, 536-559.	0.4	1
115	Bounds on the Hyperbolicity Constant. Electronic Notes in Discrete Mathematics, 2014, 46, 137-144.	0.4	0
116	Characterization of the hyperbolicity in the lexicographic product. Electronic Notes in Discrete Mathematics, 2014, 46, 97-104.	0.4	0
117	Isoperimetric inequalities in graphs and surfaces. Electronic Notes in Discrete Mathematics, 2014, 46, 257-264.	0.4	0
118	Diameter, minimum degree and hyperbolicity constant in graphs. Electronic Notes in Discrete Mathematics, 2016, 55, 181-184.	0.4	0
119	The hyperbolicity constant of infinite circulant graphs. Open Mathematics, 2017, 15, 800-814.	0.5	0
120	On the Inverse Degree Polynomial. Symmetry, 2019, 11, 1490.	1.1	0
121	LupaÅŸ-type inequality and applications to Markov-type inequalities in weighted Sobolev spaces. Bulletin of Mathematical Sciences, 2021, 11, 1950022.	0.5	0
122	Inequalities on the generalized atom bond connectivity index. Journal of Mathematical Chemistry, 2021, 59, 775-791.	0.7	0
123	A decomposition for plane domains with the quasihyperbolic metric. Journal of Mathematical Analysis and Applications, 2021, 502, 125227.	0.5	0
124	A VERY SIMPLE CHARACTERIZATION OF GROMOV HYPERBOLICITY FOR A SPECIAL KIND OF DENJOY DOMAINS. Journal of the Korean Mathematical Society, 2011, 48, 565-583.	0.4	0
125	On the exponent of convergence of negatively curved manifolds without Greenâ€™s function. Publicacions Matematiques, 2018, 62, 177-183.	0.2	0
126	Analytical and computational properties of the variable symmetric division deg index. Mathematical Biosciences and Engineering, 2022, 19, 8908-8922.	1.0	0