

Jos Manuel Rodrguez

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.

121
papers

847
citations

15
h-index

22
g-index

128
ext. papers

952
ext. citations

1.3
avg, IF

4.7
L-index

#	Paper	IF	Citations
121	Spectral properties of geometric-arithmetic index. <i>Applied Mathematics and Computation</i> , 2016 , 277, 142-153	2.7	41
120	On the hyperbolicity constant in graphs. <i>Discrete Mathematics</i> , 2011 , 311, 211-219	0.7	39
119	Gromov hyperbolicity through decomposition of metrics spaces II. <i>Journal of Geometric Analysis</i> , 2004 , 14, 123-149	0.9	39
118	Gromov hyperbolic graphs. <i>Discrete Mathematics</i> , 2013 , 313, 1575-1585	0.7	37
117	Gromov hyperbolicity through decomposition of metric spaces. <i>Acta Mathematica Hungarica</i> , 2004 , 103, 107-138	0.8	36
116	Computing the hyperbolicity constant. <i>Computers and Mathematics With Applications</i> , 2011 , 62, 4592-4595	0.7	33
115	Gromov Hyperbolicity of Riemann Surfaces. <i>Acta Mathematica Sinica, English Series</i> , 2007 , 23, 209-228	0.6	27
114	Hyperbolicity and complement of graphs. <i>Applied Mathematics Letters</i> , 2011 , 24, 1882-1887	3.5	26
113	On the Hyperbolicity Constant of Line Graphs. <i>Electronic Journal of Combinatorics</i> , 2011 , 18,	1.1	23
112	Gromov hyperbolic cubic graphs 2012 , 10, 1141-1151		22
111	Gromov hyperbolic equivalence of the hyperbolic and quasihyperbolic metrics in Denjoy domains. <i>Bulletin of the London Mathematical Society</i> , 2010 , 42, 282-294	0.9	19
110	Gromov hyperbolicity in Cartesian product graphs. <i>Proceedings of the Indian Academy of Sciences: Mathematical Sciences</i> , 2010 , 120, 593-609	0.4	19
109	On Harmonic Functions on Trees. <i>Potential Analysis</i> , 2001 , 15, 199-244	0.8	17
108	Estimates for nonlinear harmonic "measures" on trees. <i>Michigan Mathematical Journal</i> , 2001 , 49, 47	1	16
107	Generalized Weighted Sobolev Spaces and Applications to Sobolev Orthogonal Polynomials I. <i>Acta Applicandae Mathematicae</i> , 2004 , 80, 273-308	1.1	15
106	Gromov hyperbolicity of Denjoy Domains. <i>Geometriae Dedicata</i> , 2007 , 121, 221-245	0.5	14
105	Weighted Sobolev Spaces on Curves. <i>Journal of Approximation Theory</i> , 2002 , 119, 41-85	0.9	14

104	Area growth and Green's function of Riemann surfaces. <i>Arkiv for Matematik</i> , 1992 , 30, 83-92	0.2	13
103	Small values of the hyperbolicity constant in graphs. <i>Discrete Mathematics</i> , 2016 , 339, 3073-3084	0.7	13
102	CMMSE-on the first general Zagreb index. <i>Journal of Mathematical Chemistry</i> , 2018 , 56, 1849-1864	2.1	12
101	Computational and analytical studies of the Randić Index in Erdős-Rényi models. <i>Applied Mathematics and Computation</i> , 2020 , 377, 125137	2.7	11
100	Gromov hyperbolicity of Denjoy domains with hyperbolic and quasihyperbolic metrics. <i>Journal of the Mathematical Society of Japan</i> , 2012 , 64,	1.1	11
99	Structure Theorems for Riemann and Topological Surfaces. <i>Journal of the London Mathematical Society</i> , 2004 , 69, 153-168	0.7	11
98	New Hermite-Hadamard Type Inequalities Involving Non-Conformable Integral Operators. <i>Symmetry</i> , 2019 , 11, 1108	2.7	10
97	Hyperbolicity in the corona and join of graphs. <i>Aequationes Mathematicae</i> , 2015 , 89, 1311-1327	0.7	10
96	CMMSE: A new approximation to the geometric-arithmetic index. <i>Journal of Mathematical Chemistry</i> , 2018 , 56, 1865-1883	2.1	10
95	Gromov Hyperbolicity in Strong Product Graphs. <i>Electronic Journal of Combinatorics</i> , 2013 , 20,	1.1	10
94	On the hyperbolicity of edge-chordal and path-chordal graphs. <i>Filomat</i> , 2016 , 30, 2599-2607	0.7	9
93	Inequalities on the inverse degree index. <i>Journal of Mathematical Chemistry</i> , 2019 , 57, 1524-1542	2.1	8
92	Quasi-isometries and isoperimetric inequalities in planar domains. <i>Journal of the Mathematical Society of Japan</i> , 2015 , 67,	1.1	8
91	Uniformly Separated Sets and Gromov Hyperbolicity of Domains with the Quasihyperbolic Metric. <i>Mediterranean Journal of Mathematics</i> , 2011 , 8, 49-67	0.9	8
90	A simple characterization of weighted Sobolev spaces with bounded multiplication operator. <i>Journal of Approximation Theory</i> , 2008 , 153, 53-72	0.9	8
89	THE ROLE OF FUNNELS AND PUNCTURES IN THE GROMOV HYPERBOLICITY OF RIEMANN SURFACES. <i>Proceedings of the Edinburgh Mathematical Society</i> , 2006 , 49, 399-425	0.7	8
88	Distortion of the Hyperbolicity Constant of a Graph. <i>Electronic Journal of Combinatorics</i> , 2012 , 19,	1.1	8
87	General properties on Sombor indices. <i>Discrete Applied Mathematics</i> , 2021 , 299, 87-97	1	8

86	Cheeger isoperimetric constant of Gromov hyperbolic manifolds and graphs. <i>Communications in Contemporary Mathematics</i> , 2018 , 20, 1750050	1.1	7
85	Analysis of the local Drude model involving the generalized fractional derivative. <i>Optik</i> , 2019 , 193, 1630085		7
84	Characterization of Gromov hyperbolic short graphs. <i>Acta Mathematica Sinica, English Series</i> , 2014 , 30, 197-212	0.6	7
83	Bounds on Gromov hyperbolicity constant in graphs. <i>Proceedings of the Indian Academy of Sciences: Mathematical Sciences</i> , 2012 , 122, 53-65	0.4	7
82	Zero location and asymptotic behavior for extremal polynomials with non-diagonal Sobolev norms. <i>Journal of Approximation Theory</i> , 2010 , 162, 2225-2242	0.9	7
81	Sobolev Spaces with Respect to Measures in Curves and Zeros of Sobolev Orthogonal Polynomials. <i>Acta Applicandae Mathematicae</i> , 2008 , 104, 325-353	1.1	7
80	Weierstrass theorem with weights. <i>Journal of Approximation Theory</i> , 2004 , 127, 83-107	0.9	7
79	Linear and non-linear inequalities on the inverse sum indeg index. <i>Discrete Applied Mathematics</i> , 2019 , 258, 123-134	1	7
78	Relations between the differential and parameters in graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2014 , 46, 281-288	0.3	6
77	Concerning Asymptotic Behavior for Extremal Polynomials Associated to Nondiagonal Sobolev Norms. <i>Journal of Function Spaces and Applications</i> , 2013 , 2013, 1-11		6
76	Comparative Gromov hyperbolicity results for the hyperbolic and quasihyperbolic metrics. <i>Complex Variables and Elliptic Equations</i> , 2010 , 55, 127-135	0.5	6
75	Some results on lower bounds for topological indices. <i>Journal of Mathematical Chemistry</i> , 2019 , 57, 1472-1495	1.495	5
74	Stability of the injectivity radius under quasi-isometries and applications to isoperimetric inequalities. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2018 , 112, 1225-1247	1.6	5
73	Mathematical Properties of Gromov Hyperbolic Graphs 2010 ,		5
72	Computation of conformal representations of compact Riemann surfaces. <i>Mathematics of Computation</i> , 2010 , 79, 365-365	1.6	5
71	The Multiplication Operator, Zero Location and Asymptotic for Non-diagonal Sobolev Norms. <i>Acta Applicandae Mathematicae</i> , 2010 , 111, 205-218	1.1	5
70	A Kolmogorov-Szego-Krein type condition for weighted Sobolev spaces. <i>Indiana University Mathematics Journal</i> , 2005 , 54, 575-598	0.6	5
69	On the maximal general ABC index of graphs with given maximum degree. <i>Applied Mathematics and Computation</i> , 2020 , 386, 125531	2.7	5

68	Some Properties of the Arithmetic-Geometric Index. <i>Symmetry</i> , 2021 , 13, 857	2.7	5
67	Harmonic Index and Harmonic Polynomial on Graph Operations. <i>Symmetry</i> , 2018 , 10, 456	2.7	5
66	Distortion of the hyperbolicity constant in minor graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2014 , 46, 57-64	0.3	4
65	On the geometric-arithmetic index by decompositions-CMMSE. <i>Journal of Mathematical Chemistry</i> , 2017 , 55, 1376-1391	2.1	4
64	Mathematical Properties of the Hyperbolicity of Circulant Networks. <i>Advances in Mathematical Physics</i> , 2015 , 2015, 1-11	1.1	4
63	Muckenhoupt inequality with three measures and applications to Sobolev orthogonal polynomials. <i>Journal of Mathematical Analysis and Applications</i> , 2013 , 407, 369-386	1.1	4
62	Twists and Gromov hyperbolicity of riemann surfaces. <i>Acta Mathematica Sinica, English Series</i> , 2011 , 27, 29-44	0.6	4
61	Weierstrass's Theorem in Weighted Sobolev Spaces With Δ Derivatives. <i>Rocky Mountain Journal of Mathematics</i> , 2007 , 37,	1.4	4
60	On the conformable fractional logistic models. <i>Mathematical Methods in the Applied Sciences</i> , 2020 , 43, 4156	2.3	4
59	Bounds on the Arithmetic-Geometric Index. <i>Symmetry</i> , 2021 , 13, 689	2.7	4
58	Normalized Sombor Indices as Complexity Measures of Random Networks. <i>Entropy</i> , 2021 , 23,	2.8	4
57	On a classical theorem on the diameter and minimum degree of a graph. <i>Acta Mathematica Sinica, English Series</i> , 2017 , 33, 1477-1503	0.6	3
56	Escaping geodesics in Riemannian surfaces with variable negative curvature. <i>Advances in Mathematics</i> , 2019 , 345, 928-971	1.3	3
55	ANALYSIS OF DENGUE FEVER OUTBREAK BY GENERALIZED FRACTIONAL DERIVATIVE. <i>Fractals</i> , 2020 , 28, 2040038	3.2	3
54	Weighted Sobolev spaces: Markov-type inequalities and duality. <i>Bulletin of Mathematical Sciences</i> , 2018 , 8, 233-256	0.9	3
53	Bounds on Gromov hyperbolicity constant. <i>Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas</i> , 2016 , 110, 321-342	1.6	3
52	Gromov Hyperbolicity of Periodic Graphs. <i>Bulletin of the Malaysian Mathematical Sciences Society</i> , 2016 , 39, 89-116	1.2	3
51	Computing the hyperbolicity constant of a cubic graph. <i>International Journal of Computer Mathematics</i> , 2014 , 91, 1897-1910	1.2	3

50	Distinctive power of the alliance polynomial for regular graphs. <i>Electronic Notes in Discrete Mathematics</i> , 2014 , 46, 313-320	0.3	3
49	Gromov hyperbolicity of periodic planar graphs. <i>Acta Mathematica Sinica, English Series</i> , 2014 , 30, 79-90	0.6	3
48	Structure theorem for Riemannian surfaces with arbitrary curvature. <i>Mathematische Zeitschrift</i> , 2012 , 271, 45-62	0.7	3
47	Weighted Weierstrass' theorem with first derivatives. <i>Journal of Mathematical Analysis and Applications</i> , 2007 , 334, 1167-1198	1.1	3
46	Generalized inequalities involving fractional operators of the Riemann-Liouville type. <i>AIMS Mathematics</i> , 2021 , 7, 1470-1485	2.2	3
45	Distortion of boundary sets under inner functions. II. <i>Pacific Journal of Mathematics</i> , 1996 , 172, 49-81	0.5	3
44	Hyperbolicity on Graph Operators. <i>Symmetry</i> , 2018 , 10, 360	2.7	3
43	Zeros of Sobolev Orthogonal Polynomials via Muckenhoupt Inequality with Three Measures. <i>Acta Applicandae Mathematicae</i> , 2016 , 142, 9-37	1.1	2
42	Gromov Hyperbolicity in Mycielskian Graphs. <i>Symmetry</i> , 2017 , 9, 131	2.7	2
41	New lower bounds for the second variable Zagreb index. <i>Journal of Combinatorial Optimization</i> , 2018 , 36, 194-210	0.9	2
40	Mathematical Properties on the Hyperbolicity of Interval Graphs. <i>Symmetry</i> , 2017 , 9, 255	2.7	2
39	Planarity and Hyperbolicity in Graphs. <i>Graphs and Combinatorics</i> , 2015 , 31, 1311-1324	0.5	2
38	On the Generalized Laplace Transform. <i>Symmetry</i> , 2021 , 13, 669	2.7	2
37	On the hyperbolicity constant of circular-arc graphs. <i>Discrete Applied Mathematics</i> , 2019 , 263, 244-256	1	2
36	Stability of the volume growth rate under quasi-isometries. <i>Revista Matemática Complutense</i> , 2020 , 33, 231-270	0.8	2
35	Alliance polynomial of regular graphs. <i>Discrete Applied Mathematics</i> , 2017 , 225, 22-32	1	1
34	Gromov hyperbolicity in lexicographic product graphs. <i>Proceedings of the Indian Academy of Sciences: Mathematical Sciences</i> , 2019 , 129, 1	0.4	1
33	Domination on hyperbolic graphs. <i>Discrete Mathematics</i> , 2020 , 343, 112094	0.7	1

32	Gromov Hyperbolicity in Directed Graphs. <i>Symmetry</i> , 2020 , 12, 105	2.7	1
31	Gromov Hyperbolicity in the Cartesian Sum of Graphs 2018 , 44, 837-856		1
30	Several extremal problems on graphs involving the circumference, girth, and hyperbolicity constant. <i>Discrete Applied Mathematics</i> , 2019 , 263, 177-194	1	1
29	Measurable diagonalization of positive definite matrices. <i>Journal of Approximation Theory</i> , 2014 , 185, 91-97	0.9	1
28	Graphs with small hyperbolicity constant. <i>Electronic Notes in Discrete Mathematics</i> , 2014 , 46, 265-272	0.3	1
27	The topology of balls in Riemannian surfaces and Gromov hyperbolicity. <i>Mathematische Zeitschrift</i> , 2013 , 275, 741-760	0.7	1
26	Planar Riemann surfaces with uniformly distributed cusps: parabolicity and hyperbolicity. <i>Mathematische Nachrichten</i> , 2017 , 290, 1097-1112	0.8	1
25	New Bounds for Topological Indices on Trees through Generalized Methods. <i>Symmetry</i> , 2020 , 12, 1097	2.7	1
24	Inequalities on the Generalized ABC Index. <i>Mathematics</i> , 2021 , 9, 1151	2.3	1
23	F-Polynomial on Some Graph Operations. <i>Mathematics</i> , 2019 , 7, 1074	2.3	1
22	Isoperimetric Inequalities in Riemann Surfaces and Graphs. <i>Journal of Geometric Analysis</i> , 2021 , 31, 3583-3607	2.9	1
21	Topological Indices and F-Polynomials on Some Graph Products. <i>Symmetry</i> , 2021 , 13, 292	2.7	1
20	Analytical and statistical studies of Rodriguez-Velazquez indices. <i>Journal of Mathematical Chemistry</i> , 2021 , 59, 1246-1259	2.1	1
19	Hyperbolicity of Direct Products of Graphs. <i>Symmetry</i> , 2018 , 10, 279	2.7	1
18	On the Hyperbolicity Constant in Graph Minors 2018 , 44, 481-503		1
17	Extremal problems on the general Sombor index of a graph. <i>AIMS Mathematics</i> , 2022 , 7, 8330-8343	2.2	1
16	New lower bounds for the first variable Zagreb index. <i>Discrete Applied Mathematics</i> , 2022 , 306, 166-173	1	0
15	Geometric properties of chemical graphs. <i>International Journal of Quantum Chemistry</i> , 2021 , 121, e26798	1	0

- 14 Stability of p -parabolicity under quasi-isometries. *Mathematische Nachrichten*, **2022**, 295, 536-559 0.8 0
- 13 The hyperbolicity constant of infinite circulant graphs. *Open Mathematics*, **2017**, 15, 800-814 0.8
- 12 Bounds on the Hyperbolicity Constant. *Electronic Notes in Discrete Mathematics*, **2014**, 46, 137-144 0.3
- 11 Characterization of the hyperbolicity in the lexicographic product. *Electronic Notes in Discrete Mathematics*, **2014**, 46, 97-104 0.3
- 10 Isoperimetric inequalities in graphs and surfaces. *Electronic Notes in Discrete Mathematics*, **2014**, 46, 257-264 0.3
- 9 Location of geodesics and isoperimetric inequalities in Denjoy domains. *Proceedings of the Edinburgh Mathematical Society*, **2012**, 55, 245-269 0.7
- 8 A VERY SIMPLE CHARACTERIZATION OF GROMOV HYPERBOLICITY FOR A SPECIAL KIND OF DENJOY DOMAINS. *Journal of the Korean Mathematical Society*, **2011**, 48, 565-583 0.3
- 7 On p -parabolicity of Riemannian manifolds and graphs. *Revista Matemática Complutense*, **2011**, 24, 1-10 0.8
- 6 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 1.6
- 5 Diameter, minimum degree and hyperbolicity constant in graphs. *Electronic Notes in Discrete Mathematics*, **2016**, 55, 181-184 0.3
- 4 On the Inverse Degree Polynomial. *Symmetry*, **2019**, 11, 1490 2.7
- 3 Lupaş-type inequality and applications to Markov-type inequalities in weighted Sobolev spaces. *Bulletin of Mathematical Sciences*, **2021**, 11, 1950022 0.9
- 2 Inequalities on the generalized atom bond connectivity index. *Journal of Mathematical Chemistry*, **2021**, 59, 775-791 2.1
- 1 A decomposition for plane domains with the quasihyperbolic metric. *Journal of Mathematical Analysis and Applications*, **2021**, 502, 125227 1.1