

# Ronaldo Garcia

## List of Publications by Year in descending order

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62  
papers

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citations

933447

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g-index

62  
all docs

62  
docs citations

62  
times ranked

78  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inflection points and topology of surfaces in 4-space. Transactions of the American Mathematical Society, 2000, 352, 3029-3043.	0.9	43
2	Structural Stability of Asymptotic Lines on Surfaces Immersed in $R^3$ . Bulletin Des Sciences Mathematiques, 1999, 123, 599-622.	1.0	28
3	Lines of principal curvature around umbilics and Whitney umbrellas. Tohoku Mathematical Journal, 2000, 52, 163.	0.2	24
4	Lines of Curvature on Surfaces, Historical Comments and Recent Developments. Sao Paulo Journal of Mathematical Sciences, 2008, 2, 99.	0.4	20
5	Lines of axial curvature on surfaces immersed in $R^4$ . Differential Geometry and Its Applications, 2000, 12, 253-269.	0.5	19
6	Can the Elliptic Billiard Still Surprise Us?. Mathematical Intelligencer, 2020, 42, 6-17.	0.2	19
7	Bifurcations of Umbilic Points and Related Principal Cycles. Journal of Dynamics and Differential Equations, 2004, 16, 321-346.	1.9	15
8	Elliptic Billiards and Ellipses Associated to the 3-Periodic Orbits. American Mathematical Monthly, 2019, 126, 491-504.	0.3	15
9	Fifty New Invariants of N-Periodics in the Elliptic Billiard. Arnold Mathematical Journal, 2021, 7, 341-355.	0.4	15
10	Harmonic mean curvature lines on surfaces immersed in $\mathbb{R}^3$ . - AMS-LaTeX! % MathType!MTEF!2!1!+- % feaafear1evIaaatCvAUfeBSjuyZL2yd9gzLbvyNv2CaerbuLwBLn % hiov2DGi1BTfMBaeXafv3ySLgzGmvETj2BSbqefmOB1jxALjhiov2D % aebbnrfifHhDYfgasaachH8srps0lbbf9q8WrFfeuY-Hhbbf9v8qqaq % FrOxc9pkOxbba9q8WqFfea0-yrORYxir-Jbba9q8aq0-yq-He9q8qq % Q8frFve9Fve9Ff0dmeaabaqaciGacaGaaeqabaWaaeaaeaaakeaacq % WIDesOdaahaaWcbegaaiiaicdaaaeaa!	0.8	12
11	Structurally stable configurations of lines of mean curvature and umbilic points on surfaces immersed in $\mathbb{R}^3$ . Publicacions Matemàtiques, 2001, 45, 431-466.	0.5	12
12	Structural stability of parabolic points and periodic asymptotic lines. Matematica Contemporanea, 1997, 12, .	0.0	11
13	New Properties of Triangular Orbits in Elliptic Billiards. American Mathematical Monthly, 0, , 1-13.	0.3	9
14	Lines of curvature near principal cycles. Annals of Global Analysis and Geometry, 1992, 10, 275-289.	0.6	8
15	Structural stability of piecewise-linear vector fields. Journal of Differential Equations, 2003, 192, 553-565.	2.2	8
16	Lines of principal curvature on canal surfaces in $R^3$ . Anais Da Academia Brasileira De Ciencias, 2006, 78, 405-415.	0.8	8
17	Geometric mean curvature lines on surfaces immersed in $\mathbb{R}^3$ . Annales De La Faculté Des Sciences De Toulouse, 2002, 11, 377-401.	0.3	8
18	On the patterns of principal curvature lines around a curve of umbilic points. Anais Da Academia Brasileira De Ciencias, 2005, 77, 13-24.	0.8	7

#	ARTICLE	IF	CITATIONS
19	Codimension two umbilic points on surfaces immersed in $\mathbb{R}^3$ . Discrete and Continuous Dynamical Systems, 2007, 17, 293-308.	0.9	7
20	Hyperbolic principal cycles on hypersurfaces of $\mathbb{R}^4$ . Annals of Global Analysis and Geometry, 1993, 11, 185-196.	0.6	6
21	Lines of mean curvature on surfaces immersed in $\mathbb{R}^3$ . Qualitative Theory of Dynamical Systems, 2004, 4, 263-309.	1.7	6
22	Family Ties. KoG, 2021, , 3-18.	0.1	6
23	Closed Principal Lines of Surfaces Immersed in the Euclidean 4-Space. Journal of Dynamical and Control Systems, 2002, 8, 153-166.	0.8	5
24	Invariant Center Power and Elliptic Loci of Poncelet Triangles. Journal of Dynamical and Control Systems, 0, , 1.	0.8	5
25	Vector fields on manifolds with boundary and reversibility " An expository account ". Qualitative Theory of Dynamical Systems, 2004, 4, 311-327.	1.7	4
26	New Invariants of Poncelet "Jacobi Bicentric Polygons. Arnold Mathematical Journal, 2021, 7, 619-637.	0.4	4
27	Geometrical conditions for the stability of orbits in planar systems. Mathematical Proceedings of the Cambridge Philosophical Society, 1996, 120, 499-519.	0.4	3
28	Ovaloids of $\mathbb{R}^3$ and Their Umbilics: A Differential Equation Approach. Journal of Differential Equations, 2000, 168, 200-211.	2.2	3
29	Umbilic singularities and lines of curvature on ellipsoids of $\mathbb{R}^4$ . Bulletin of the Brazilian Mathematical Society, 2014, 45, 453-483.	0.8	3
30	Lines of curvature on quadric hypersurfaces of $\mathbb{R}^4$ . Lobachevskii Journal of Mathematics, 2016, 37, 288-306.	0.9	3
31	Foliations making a constant angle with principal directions on ellipsoids. Annales Polonici Mathematici, 2015, 113, 165-173.	0.5	3
32	Poncelet triangles: a theory for locus ellipticity. Beitrage Zur Algebra Und Geometrie, 0, , 1.	0.5	3
33	Umbilic and Tangential Singularities on Configurations of Principal Curvature Lines. Anais Da Academia Brasileira De Ciencias, 2002, 74, 1-17.	0.8	2
34	PRINCIPAL MEAN CURVATURE FOLIATIONS ON SURFACES IMMERSSED IN $\mathbb{R}^4$ . , 2005, , .		2
35	Tori embedded in $\mathbb{R}^3$ with dense principal lines. Bulletin Des Sciences Mathematiques. 2009. 133. 348-354.	1.0	2
36	Inflection points on hyperbolic tori of $S^3$ . Quarterly Journal of Mathematics, 2018, 69, 709-728.	0.8	2

#	ARTICLE	IF	CITATIONS
37	Lines of Affine Principal Curvatures of Surfaces in 3-Space. Results in Mathematics, 2020, 75, 1.	0.8	2
38	The talented Mr. Inversive Triangle in the elliptic billiard. European Journal of Mathematics, 0, , 1.	0.5	2
39	A matryoshka of Brocard porisms. European Journal of Mathematics, 0, , 1.	0.5	2
40	Holonomy of a foliation by principal curvature lines. Bulletin of the Brazilian Mathematical Society, 2008, 39, 341-354.	0.8	1
41	Partially umbilic singularities of hypersurfaces of $R^4$ . Bulletin Des Sciences Mathematiques, 2015, 139, 431-472.	1.0	1
42	Darboux curves on surfaces II. Bulletin of the Brazilian Mathematical Society, 2016, 47, 1119-1154.	0.8	1
43	Darboux curves on surfaces I. Journal of the Mathematical Society of Japan, 2017, 69, .	0.4	1
44	Asymptotic behavior of the shape of planar polygons by linear flows. Linear Algebra and Its Applications, 2018, 557, 508-528.	0.9	1
45	Intriguing invariants of centers of ellipse-inscribed triangles. Journal of Geometry, 2021, 112, 1.	0.4	1
46	Area-invariant pedal-like curves derived from the ellipse. Beitrage Zur Algebra Und Geometrie, 0, , 1.	0.5	1
47	Poncelet plectra: harmonious curves in cosine space. Beitrage Zur Algebra Und Geometrie, 0, , 1.	0.5	1
48	Tori embedded in $S^3$ with dense asymptotic lines. Anais Da Academia Brasileira De Ciencias, 2009, 81, 13-19.	0.8	1
49	Steiner's Hat: a Constant-Area Deltoid Associated with the Ellipse. KoG, 2020, , 12-28.	0.1	1
50	Oxidation fronts in a simplified model for two-phase flow in porous media. Matematica Contemporanea, 2002, 22, .	0.0	1
51	Curvature lines on orthogonal surfaces of $R^3$ and Joachimsthal Theorem. Civilizar, 2005, 5, 63.	0.1	1
52	Loci of Poncelet triangles in the general closure case. Journal of Geometry, 2022, 113, 1.	0.4	1
53	A metric property of umbilic points. Anais Da Academia Brasileira De Ciencias, 2003, 75, 405-413.	0.8	0
54	A Special Trefoil Knot Has Two or More Vertices. Results in Mathematics, 2007, 50, 43-51.	0.8	0

#	ARTICLE	IF	CITATIONS
55	Surfaces around closed principal curvature lines, an inverse problem. , 0, , 158-166.		0
56	Bifurcation Dynamics: Theory, Methods, and Applications. Differential Equations and Dynamical Systems, 2012, 20, 189-190.	1.0	0
57	<p> <math>\mathbb{R}^3</math> tori in <math>\langle 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/xml/common/struct-ce/dtd" </math> </p>	1.0	0
58	Lines of axial curvature at critical points on surfaces mapped into $\mathbb{R}^4$ . Sao Paulo Journal of Mathematical Sciences, 2012, 6, 277.	0.4	0
59	Maurício Matos Peixoto. Matemática Universitária, 2020, 1, .	0.0	0
60	Darboux curves on surfaces II. Bulletin of the Brazilian Mathematical Society, 0, , .	0.8	0
61	Axial Curvature Cycles of Surfaces Immersed in $\mathbb{R}^4$ . Lobachevskii Journal of Mathematics, 2022, 43, 78-97.	0.9	0
62	Principal Curvature Lines Near a Partially Umbilic Point of Codimension One. Lobachevskii Journal of Mathematics, 2022, 43, 162-181.	0.9	0