

# Juan Seoane Sep̃olveda

## List of Publications by Year in descending order

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128  
papers

2,052  
citations

279701

23  
h-index

289141

40  
g-index

129  
all docs

129  
docs citations

129  
times ranked

255  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lineability and spaceability of sets of functions on $\mathbb{R}$ . Proceedings of the American Mathematical Society, 2004, 133, 795-803.	0.4	200
2	Linear subsets of nonlinear sets in topological vector spaces. Bulletin of the American Mathematical Society, 2013, 51, 71-130.	0.8	156
3	The Bohr radius of the $n$ -dimensional polydisk is equivalent to $\frac{1}{\sqrt{2}}$ . Advances in Mathematics, 2019, 369, 265-272.	0.5	109
4	Algebrability of the set of non-convergent Fourier series. Studia Mathematica, 2006, 175, 83-90.	0.4	72
5	Sharp generalizations of the multilinear Bohnenblust-Hille inequality. Journal of Functional Analysis, 2014, 266, 3726-3740.	0.7	70
6	Optimal Hardy-Littlewood type inequalities for polynomials and multilinear operators. Israel Journal of Mathematics, 2016, 211, 197-220.	0.4	63
7	Some results and open questions on spaceability in function spaces. Transactions of the American Mathematical Society, 2014, 366, 611-625.	0.5	62
8	Algebrability of the set of everywhere surjective functions on $\mathbb{C}$ . Bulletin of the Belgian Mathematical Society - Simon Stevin, 2007, 14, .	0.1	58
9	On dense-lineability of sets of functions on $\mathbb{R}$ . Topology, 2009, 48, 149-156.	0.4	57
10	Sierpiński-Zygmund functions and other problems on lineability. Proceedings of the American Mathematical Society, 2010, 138, 3863-3863.	0.4	50
11	Lineability and algebrability of pathological phenomena in analysis. Journal of Mathematical Analysis and Applications, 2007, 326, 929-939.	0.5	42
12	Some techniques on nonlinear analysis and applications. Advances in Mathematics, 2012, 229, 1235-1265.	0.5	39
13	An undecidable case of lineability in $\mathbb{R}^{\mathbb{R}}$ . Journal of Mathematical Analysis and Applications, 2012, 391, 258-262.	0.5	39
14	Basic sequences and spaceability in $\mathbb{R}^{\mathbb{R}}$ . Journal of Functional Analysis, 2014, 266, 3797-3814.	0.7	37
15	Lineability and additivity in $\mathbb{R}^{\mathbb{R}}$ . Journal of Mathematical Analysis and Applications, 2010, 369, 265-272.	0.5	36
16	Infinite dimensional Banach spaces of functions with nonlinear properties. Mathematische Nachrichten, 2010, 283, 712-720.	0.4	36
17	A SIR-type model describing the successive waves of COVID-19. Chaos, Solitons and Fractals, 2021, 144, 110682.	2.5	36
18	Differentiability versus continuity: Restriction and extension theorems and monstrous examples. Bulletin of the American Mathematical Society, 2018, 56, 211-260.	0.8	31



#	ARTICLE	IF	CITATIONS
37	On the Bohnenblust–Hille inequality and a variant of Littlewood’s $4/3$ inequality. <i>Journal of Functional Analysis</i> , 2013, 264, 326-336.	0.7	15
38	The unit ball of the complex $\mathcal{P}(\mathbb{C}^3)$ . <i>Mathematische Zeitschrift</i> , 2009, 263, 775-785.	0.4	14
39	A Characterization of Continuity Revisited. <i>American Mathematical Monthly</i> , 2011, 118, 167.	0.2	14
40	Peano curves on topological vector spaces. <i>Linear Algebra and Its Applications</i> , 2014, 460, 81-96.	0.4	14
41	Cardinal coefficients related to surjectivity, Darboux, and Sierpiński-Zygmund maps. <i>Proceedings of the American Mathematical Society</i> , 2017, 145, 1041-1052.	0.4	13
42	On the dimension of subspaces of continuous functions attaining their maximum finitely many times. <i>Transactions of the American Mathematical Society</i> , 2020, 373, 3063-3083.	0.5	13
43	Unconditional constants and polynomial inequalities. <i>Journal of Approximation Theory</i> , 2009, 161, 706-722.	0.5	12
44	Moduleability, algebraic structures, and nonlinear properties. <i>Journal of Mathematical Analysis and Applications</i> , 2010, 370, 159-167.	0.5	12
45	On the real polynomial Bohnenblust–Hille inequality. <i>Linear Algebra and Its Applications</i> , 2015, 465, 391-400.	0.4	12
46	Riemann integrability and Lebesgue measurability of the composite function. <i>Journal of Mathematical Analysis and Applications</i> , 2009, 354, 229-233.	0.5	11
47	Non-Lipschitz functions with bounded gradient and related problems. <i>Linear Algebra and Its Applications</i> , 2012, 437, 1174-1181.	0.4	11
48	Distributional chaos for the Forward and Backward Control traffic model. <i>Linear Algebra and Its Applications</i> , 2015, 479, 202-215.	0.4	11
49	Chaos on function spaces. <i>Bulletin of the Australian Mathematical Society</i> , 2005, 71, 411-415.	0.3	10
50	Estimates for the asymptotic behaviour of the constants in the Bohnenblust–Hille inequality. <i>Linear and Multilinear Algebra</i> , 2012, 60, 573-582.	0.5	10
51	Distinguished subspaces of $L^p$ of maximal dimension. <i>Studia Mathematica</i> , 2013, 215, 261-280.	0.4	10
52	A population structure-sensitive mathematical model assessing the effects of vaccination during the third surge of COVID-19 in Italy. <i>Journal of Mathematical Analysis and Applications</i> , 2022, 514, 125975.	0.5	10
53	Bounded and unbounded polynomials and multilinear forms: Characterizing continuity. <i>Linear Algebra and Its Applications</i> , 2012, 436, 237-242.	0.4	9
54	Matrix Summability Methods and Weakly Unconditionally Cauchy Series. <i>Rocky Mountain Journal of Mathematics</i> , 2009, 39, .	0.2	9

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55	Vector Spaces of Non-measurable Functions. Acta Mathematica Sinica, English Series, 2006, 22, 1805-1808.	0.2	8
56	ON VERY NON-LINEAR SUBSETS OF CONTINUOUS FUNCTIONS. Quarterly Journal of Mathematics, 2014, 65, 841-850.	0.3	8
57	On Montgomery's conjecture and the distribution of Dirichlet sums. Journal of Functional Analysis, 2014, 267, 1241-1255.	0.7	7
58	Algebras of measurable extendable functions of maximal cardinality. Linear Algebra and Its Applications, 2019, 565, 258-266.	0.4	7
59	A new approach towards estimating the n-dimensional Bohr radius. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2021, 115, 1.	0.6	7
60	Additivity Coefficients for all Classes in the Algebra of Darboux-Like Maps on $\mathbb{R}$ . Results in Mathematics, 2021, 76, 1.	0.4	7
61	A characterization of real Hilbert spaces using the Bochnak complexification norm. Archiv Der Mathematik, 2003, 80, 384-392.	0.3	6
62	Orbits of Cesàro type operators. Mathematische Nachrichten, 2009, 282, 764-773.	0.4	6
63	A general Extrapolation Theorem for absolutely summing operators. Bulletin of the London Mathematical Society, 2012, 44, 1292-1302.	0.4	6
64	Porous sets and lineability of continuous functions on locally compact groups. Journal of Mathematical Analysis and Applications, 2013, 406, 211-218.	0.5	6
65	When the Identity Theorem "Seems" to Fail. American Mathematical Monthly, 2014, 121, 60.	0.2	6
66	Sharp values for the constants in the polynomial Bohnenblust-Hille inequality. Linear and Multilinear Algebra, 2016, 64, 1731-1749.	0.5	6
67	Self-similar functions, fractals and algebraic genericity. Proceedings of the American Mathematical Society, 2017, 145, 4151-4159.	0.4	6
68	On functions that are almost continuous and perfectly everywhere surjective but not Jones. Lineability and additivity. Topology and Its Applications, 2018, 235, 73-82.	0.2	6
69	Highly tempering infinite matrices. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2018, 112, 341-345.	0.6	6
70	On the zero-set of 2-homogeneous polynomials in Banach spaces. Linear and Multilinear Algebra, 2019, 67, 1958-1970.	0.5	6
71	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"} \rangle \langle \text{mml:mo stretchy="false"} \rangle [ \langle \text{mml:mo} \rangle \langle \text{mml:mi mathvariant="script"} \rangle S \langle \text{mml:mi} \rangle \langle \text{mml:mo stretchy="false"} \rangle ] \langle \text{mml:mo} \rangle \langle \text{mml:math} \rangle$ -linear and convex structures in function families. Linear Algebra and Its Applications, 2019, 579, 463-483.	0.4	6
72	Algebraic genericity within the class of sup-measurable functions. Journal of Mathematical Analysis and Applications, 2020, 483, 123576.	0.5	6

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73	Geometry of spaces of homogeneous trinomials on $\mathbb{R}^2$ . Banach Journal of Mathematical Analysis, 2021, 15, 1.	0.4	6
74	Explicit Constructions of Dense Common Hypercyclic Subspaces. Publications of the Research Institute for Mathematical Sciences, 2007, 43, 373-384.	0.4	6
75	The real plank problem and some applications. Proceedings of the American Mathematical Society, 2010, 138, 2521-2535.	0.4	5
76	Periods of strongly continuous semigroups. Bulletin of the London Mathematical Society, 2012, 44, 480-488.	0.4	5
77	Equivalent norms in polynomial spaces and applications. Journal of Mathematical Analysis and Applications, 2017, 445, 1200-1220.	0.5	5
78	On the polynomial Hardy-Littlewood inequality. Archiv Der Mathematik, 2015, 104, 259-270.	0.3	4
79	Locally recurrent functions, density topologies and algebraic genericity. Journal of Mathematical Analysis and Applications, 2016, 443, 1247-1259.	0.5	4
80	Linear chaos for the Quick-Thinking-Driver model. Semigroup Forum, 2016, 92, 486-493.	0.3	4
81	A hierarchy in the family of real surjective functions. Open Mathematics, 2017, 15, 486-501.	0.5	4
82	Highly tempering infinite matrices II: From divergence to convergence via Toeplitz-Silverman matrices. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2020, 114, 1.	0.6	4
83	Quantitative and qualitative estimates on the norm of products of polynomials. Israel Journal of Mathematics, 2020, 236, 727-745.	0.4	4
84	Banach spaces and Banach lattices of singular functions. Studia Mathematica, 2021, 260, 167-193.	0.4	4
85	Obtaining algebraicity in subsets of real functions. Publicaciones Mathematicae, 2020, 96, 231-244.	0.1	4
86	Sharp Bernstein inequalities using convex analysis techniques. Mathematical Inequalities and Applications, 2020, , 725-750.	0.1	4
87	Lineability, continuity, and antiderivatives in the non-Archimedean setting. Canadian Mathematical Bulletin, 2021, 64, 638-650.	0.3	4
88	Convolution functions that are nowhere differentiable. Journal of Mathematical Analysis and Applications, 2014, 413, 609-615.	0.5	3
89	On the size of special families of linear operators. Linear Algebra and Its Applications, 2018, 544, 186-205.	0.4	3
90	Nowhere Hölderian functions and Pringsheim singular functions in the disc algebra. Monatshefte Fur Mathematik, 2019, 188, 591-609.	0.5	3

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91	Continuity Restrictions of Arbitrary Functions. American Mathematical Monthly, 2019, 126, 547-552.	0.2	3
92	Lineability and integrability in the sense of Riemann, Lebesgue, Denjoy, and Khintchine. Journal of Mathematical Analysis and Applications, 2020, 492, 1244-33.	0.5	3
93	A complete study of the geometry of 2-homogeneous polynomials on circle sectors. Revista De La Real Academia De Ciencias Exactas, Físicas Y Naturales - Serie A: Matemáticas, 2020, 114, 1.	0.6	3
94	Lineability, differentiable functions and special derivatives. Banach Journal of Mathematical Analysis, 2021, 15, 1.	0.4	3
95	Hölder's inequality: some recent and unexpected applications. Bulletin of the Belgian Mathematical Society - Simon Stevin, 2017, 24, .	0.1	3
96	Lineability and algebraicity within $p$ -adic function spaces. Bulletin of the Belgian Mathematical Society - Simon Stevin, 2020, 27, .	0.1	3
97	Classical vs. non-Archimedean analysis: an approach via algebraic genericity. Revista De La Real Academia De Ciencias Exactas, Físicas Y Naturales - Serie A: Matemáticas, 2022, 116, 1.	0.6	3
98	The Stereographic Projection in Banach Spaces. Rocky Mountain Journal of Mathematics, 2007, 37, .	0.2	2
99	The set of periods of chaotic operators and semigroups. Revista De La Real Academia De Ciencias Exactas, Físicas Y Naturales - Serie A: Matemáticas, 2011, 105, 397-402.	0.6	2
100	Grothendieck's theorem for absolutely summing multilinear operators is optimal. Linear and Multilinear Algebra, 2015, 63, 554-558.	0.5	2
101	Universality of sequences of operators related to Taylor series. Journal of Mathematical Analysis and Applications, 2019, 474, 480-491.	0.5	2
102	Holomorphic surjectivity near the boundary: topological and algebraic genericity. Linear and Multilinear Algebra, 2020, 68, 1434-1456.	0.5	2
103	Hausdorff and Box dimensions of continuous functions and lineability. Linear and Multilinear Algebra, 2021, 69, 593-606.	0.5	2
104	Injective mappings in $\mathbb{R}^{\mathbb{R}}$ and lineability. Bulletin of the Belgian Mathematical Society - Simon Stevin, 2016, 23, .	0.1	2
105	Bernstein-Markov type inequalities and other interesting estimates for polynomials on circle sectors. Mathematical Inequalities and Applications, 2017, , 285-299.	0.1	2
106	Lineability, algebraicity, and sequences of random variables. Mathematische Nachrichten, 2022, 295, 861-875.	0.4	2
107	A strict topology on Orlicz spaces. Mathematische Nachrichten, 2015, 288, 498-508.	0.4	1
108	Holomorphic functions on non-Runge domains and related problems. Linear Algebra and Its Applications, 2016, 511, 226-236.	0.4	1

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109	Porosity and the $\ell^p$ -conjecture for semigroups. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2016, 110, 7-16.	0.6	1
110	Infinite dimensional holomorphic non-extendability and algebraic genericity. Linear Algebra and Its Applications, 2017, 513, 149-159.	0.4	1
111	Isomorphic copies of $\ell^1$ for $m$ -homogeneous non-analytic Bohnenblust-Hille polynomials. Mathematische Nachrichten, 2017, 290, 218-225.	0.4	1
112	Connected polynomials and continuity. Journal of Mathematical Analysis and Applications, 2018, 462, 298-304.	0.5	1
113	Boundary-Nonregular Functions in the Disc Algebra and in Holomorphic Lipschitz Spaces. Mediterranean Journal of Mathematics, 2018, 15, 1.	0.4	1
114	The convolution of two differentiable functions on the circle need not be differentiable. Revista Matematica Complutense, 2019, 32, 187-193.	0.7	1
115	Algebraic genericity and the differentiability of the convolution. Journal of Approximation Theory, 2019, 241, 86-106.	0.5	1
116	When is the Haar measure a Pietsch measure for nonlinear mappings?. Studia Mathematica, 2012, 213, 275-287.	0.4	1
117	Multiplicative structures of hypercyclic functions for convolution operators. Journal of Operator Theory, 2018, 80, 213-224.	0.2	1
118	HYPERGROUP ALGEBRAS AS TOPOLOGICAL ALGEBRAS. Bulletin of the Australian Mathematical Society, 2014, 90, 486-493.	0.3	0
119	Nonlinear absolutely summing operators revisited. Bulletin of the Brazilian Mathematical Society, 2015, 46, 205-249.	0.3	0
120	Abstract extrapolation theorems for absolutely summing nonlinear operators. Journal of Mathematical Analysis and Applications, 2015, 421, 730-746.	0.5	0
121	Non-Lipschitz differentiable functions on slit domains. Revista Matematica Complutense, 2017, 30, 269-279.	0.7	0
122	Generalized $p$ value for multivariate Gaussian stochastic processes in continuous time. Statistical Papers, 2019, 60, 2013-2030.	0.7	0
123	Injectiveness and Discontinuity of Multiplicative Convex Functions. Mathematics, 2021, 9, 1035.	1.1	0
124	Discontinuous, although $\epsilon$ -differentiable, real functions and algebraic genericity. Journal of Mathematical Analysis and Applications, 2021, 502, 125264.	0.5	0
125	Healthy versus congestive heart failure patients—An approach via the Hurst parameter. Communications in Nonlinear Science and Numerical Simulation, 2021, 103, 106004.	1.7	0
126	Complexifications of Polynomials and Multilinear Maps on Real Banach Spaces. , 2000, , 411-428.		0



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127	On the real linear polarization constant problem. <i>Mathematical Inequalities and Applications</i> , 2006, , 485-494.	0.1	0
128	Ordering among the topologies induced by various polynomial norms. <i>Bulletin of the Belgian Mathematical Society - Simon Stevin</i> , 2019, 26, .	0.1	0