

# Jorge Gonzalez

## List of Publications by Year in descending order

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63  
papers

1,651  
citations

361296

20  
h-index

315616

38  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2476  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale tweezers for single-cell biopsies. <i>Nature Nanotechnology</i> , 2019, 14, 80-88.	15.6	147
2	Chloride, carboxylate and carbonate transport by ortho-phenylenediamine-based bisureas. <i>Chemical Science</i> , 2013, 4, 103-117.	3.7	119
3	Visualising G-quadruplex DNA dynamics in live cells by fluorescence lifetime imaging microscopy. <i>Nature Communications</i> , 2021, 12, 162.	5.8	101
4	Deuterium NMR studies of framework and guest mobility in the metal-organic framework compound MOF-5, Zn <sub>4</sub> O(O <sub>2</sub> CC <sub>6</sub> H <sub>4</sub> CO <sub>2</sub> ) <sub>3</sub> . <i>Microporous and Mesoporous Materials</i> , 2005, 84, 97-104.	2.2	88
5	Generation of Atomistic Models of Periodic Mesoporous Silica by Kinetic Monte Carlo Simulation of the Synthesis of the Material. <i>Journal of Physical Chemistry B</i> , 2006, 110, 319-333.	1.2	77
6	Squaramide-Based Reagent for Selective Chromogenic Sensing of Cu(II) through a Zwitterion Radical. <i>Organic Letters</i> , 2010, 12, 3840-3843.	2.4	61
7	NMR Structure of a Triangulenium-Based Long-Lived Fluorescence Probe Bound to a G-Quadruplex. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12508-12511.	7.2	59
8	Principles and Determinants of G-Protein Coupling by the Rhodopsin-Like Thyrotropin Receptor. <i>PLoS ONE</i> , 2010, 5, e9745.	1.1	54
9	A Redox-Activated G-Quadruplex DNA Binder Based on a Platinum(IV)-Salphen Complex. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 310-313.	7.2	52
10	Hydrogen and Copper Ion-Induced Molecular Reorganizations in Scorpionand-like Ligands. A Potentiometric, Mechanistic, and Solid-State Study. <i>Inorganic Chemistry</i> , 2007, 46, 5707-5719.	1.9	51
11	Dinickel-Salphen Complexes as Binders of Human Telomeric Dimeric G-Quadruplexes. <i>Chemistry - A European Journal</i> , 2017, 23, 4713-4722.	1.7	50
12	Bifunctional Organocatalysts in the Asymmetric Michael Additions of Carbonylic Compounds to Nitroalkenes. <i>Current Organic Chemistry</i> , 2012, 16, 2440-2461.	0.9	45
13	Design of Hybrid Organic/Inorganic Adsorbents Based on Periodic Mesoporous Silica. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 5586-5597.	1.8	42
14	Validation and assessment of matrix effect and uncertainty of a gas chromatography coupled to mass spectrometry method for pesticides in papaya and avocado samples. <i>Journal of Food and Drug Analysis</i> , 2017, 25, 501-509.	0.9	41
15	Anthracene-terpyridine metal complexes as new G-quadruplex DNA binders. <i>Journal of Inorganic Biochemistry</i> , 2016, 160, 275-286.	1.5	39
16	Novel cationic bis(acylhydrazones) as modulators of Epstein-Barr virus immune evasion acting through disruption of interaction between nucleolin and G-quadruplexes of EBNA1 mRNA. <i>European Journal of Medicinal Chemistry</i> , 2019, 178, 13-29.	2.6	35
17	Structural Studies and Computer Simulation of the Inclusion of Aromatic Hydrocarbons in a Zinc 2,6-Naphthalene Dicarboxylate Framework Compound. <i>Journal of Physical Chemistry B</i> , 2004, 108, 535-543.	1.2	34
18	Binding Studies of Metal-Salphen and Metal-Bipyridine Complexes towards G-Quadruplex DNA. <i>Chemistry - A European Journal</i> , 2018, 24, 11785-11794.	1.7	29

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19	Tritopic phenanthroline and pyridine tail-tied aza-scorpianids. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 2367.	1.5	24
20	Motion of Aromatic Hydrocarbons in the Microporous Aluminum Methylphosphonates AlMePO- $\hat{1}\pm$ and AlMePO- $\hat{1}^2$ . <i>Journal of Physical Chemistry B</i> , 2005, 109, 21700-21709.	1.2	21
21	Synthesis and coordination properties of an azamacrocyclic Zn(II) chemosensor containing pendent methylnaphthyl groups. <i>Dalton Transactions</i> , 2008, , 6530.	1.6	21
22	Elucidation of the Pore Structure of SBA-2 Using Monte Carlo Simulation To Interpret Experimental Data for the Adsorption of Light Hydrocarbons. <i>Langmuir</i> , 2004, 20, 7653-7658.	1.6	20
23	Packing of adsorbed molecules in microporous polymorphs aluminium methylphosphonates $\hat{1}\pm$ and $\hat{1}^2$ . <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 2351.	1.3	20
24	Dynamic adsorption separation of benzene/cyclohexane mixtures on micro-mesoporous silica SBA-2. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109942.	2.2	20
25	Structure of the Mesoporous Silica SBA-2, Determined by a Percolation Analysis of Adsorption. <i>Langmuir</i> , 2004, 20, 9856-9860.	1.6	19
26	CO <sub>2</sub> Fixation and Activation by Cu <sup>II</sup> Complexes of 5,5'-Terpyridinophane Macrocycles. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 84-97.	1.0	19
27	Synthetic single and double aza-scorpianid macrocycles acting as inhibitors of the antioxidant enzymes iron superoxide dismutase and trypanothione reductase in <i>Trypanosoma cruzi</i> with promising results in a murine model. <i>RSC Advances</i> , 2014, 4, 65108-65120.	1.7	19
28	Analytical method development for the determination of emerging contaminants in water using supercritical-fluid chromatography coupled with diode-array detection. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4219-4226.	1.9	18
29	M $\pi$ -H $\pi$ -C interaction " Agostic or not: A comparison of phenyl- versus pyridyl-bridged transition metal dimers. <i>Inorganica Chimica Acta</i> , 2014, 417, 287-293.	1.2	17
30	A Redox-Activated G $\alpha$ Quadruplex DNA Binder Based on a Platinum(IV)-Salphen Complex. <i>Angewandte Chemie</i> , 2018, 130, 316-319.	1.6	17
31	Aza-Macrocyclic Triphenylamine Ligands for G $\alpha$ Quadruplex Recognition. <i>Chemistry - A European Journal</i> , 2018, 24, 10850-10858.	1.7	17
32	Synthesis and cytotoxic activity of a new potential DNA bisintercalator: 1,4-Bis{3-[N-(4-chlorobenzo[g]phthalazin-1-yl)aminopropyl]}piperazine. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 5301-5309.	1.4	15
33	Emerging contaminant determination in water samples by liquid chromatography using a monolithic column coupled with a photodiode array detector. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4661-4670.	1.9	15
34	Aryl-bis-(scorpianid)-aza receptors differentiate between nucleotide monophosphates by a combination of aromatic, hydrogen bond and electrostatic interactions. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 1732-1740.	1.5	15
35	NMR Structure of a Triangulenium-Based Long-Lived Fluorescence Probe Bound to a G $\alpha$ Quadruplex. <i>Angewandte Chemie</i> , 2016, 128, 12696-12699.	1.6	14
36	Development of sampling and analytical procedure for determining hexachlorobenzene and hexachloro-1,3-butadiene in air. <i>Environmental Science &amp; Technology</i> , 1974, 8, 584-585.	4.6	13

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37	X-Ray Supramolecular Structure, NMR Spectroscopy and Synthesis of 3-Methyl-1-phenyl-1H-chromeno[4,3-c]pyrazol-4-ones Formed by the Unexpected Cyclization of 3-[1-(Phenyl-hydrazono)ethyl]-chromen-2-ones. <i>Molecules</i> , 2011, 16, 915-932.	1.7	13
38	Asymmetric transfer hydrogenation of prochiral ketones in aqueous media with chiral water-soluble and heterogenized bifunctional catalysts of the RhCp* type ligand. <i>Chirality</i> , 2011, 23, 178-184.	1.3	13
39	In vitro antileishmanial activity of aza-scorpian macrocycles. Inhibition of the antioxidant enzyme iron superoxide dismutase. <i>RSC Advances</i> , 2016, 6, 17446-17455.	1.7	13
40	Equilibrium and kinetic studies on complex formation and decomposition and the movement of Cu <sup>2+</sup> metal ions within polytopic receptors. <i>Dalton Transactions</i> , 2013, 42, 6131.	1.6	12
41	Development of Polyamine-Substituted Triphenylamine Ligands with High Affinity and Selectivity for Cd-Quadruplex DNA. <i>ChemBioChem</i> , 2020, 21, 1167-1177.	1.3	11
42	Thermal [4 + 2] Cycloadditions of 3-Acetyl-, 3-Carbamoyl-, and 3-Ethoxycarbonyl-Coumarins with 2,3-Dimethyl-1,3-butadiene under Solventless Conditions: A Structural Study. <i>Molecules</i> , 2010, 15, 1513-1530.	1.7	10
43	Pore-Network Connectivity and Molecular Sieving of Normal and Isoalkanes in the Mesoporous Silica SBA-2. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10183-10190.	1.5	10
44	Oxidative stress protection by manganese complexes of tail-tied aza-scorpian ligands. <i>Journal of Inorganic Biochemistry</i> , 2016, 163, 230-239.	1.5	10
45	Initial Biological Assessment of Upconversion Nanohybrids. <i>Biomedicines</i> , 2021, 9, 1419.	1.4	10
46	Toward a Rational Design of Polyamine-Based Zinc-Chelating Agents for Cancer Therapies. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 1199-1215.	2.9	9
47	Structural reorganisation in polytopic receptors revealed by kinetic studies. <i>Chemical Communications</i> , 2010, 46, 6081.	2.2	8
48	The size of the aryl linker between two polyaza-cyclophane moieties controls the binding selectivity to ds-RNA vs. ds-DNA. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 2154.	1.5	8
49	Correlation between the molecular structure and the kinetics of decomposition of azamacrocyclic copper(II) complexes. <i>Dalton Transactions</i> , 2015, 44, 8255-8266.	1.6	7
50	Propylsulfonic acid grafted on mesoporous siliceous FDU-5 material: A high TOF catalyst for the synthesis of coumarins via Pechmann condensation. <i>Microporous and Mesoporous Materials</i> , 2020, 307, 110458.	2.2	7
51	Kinetics of Zn <sup>2+</sup> complexation by a ditopic phenanthroline-azamacrocyclic scorpion-like receptor. <i>Chemical Communications</i> , 2012, 48, 1994.	2.2	6
52	Protonation, coordination chemistry, cyanometallate supercomplex formation and fluorescence chemosensing properties of a bis(2,2'-bipyridino)cyclophane receptor. <i>Dalton Transactions</i> , 2014, 43, 2437-2447.	1.6	6
53	Polarization and Electoral Incentives: The End of the Chilean Consensus Democracy, 1990-2014. <i>Latin American Politics and Society</i> , 2018, 60, 49-68.	0.4	5
54	La fragilidad de los consensos. Polarización ideológica en el Chile post Pinochet. <i>Revista De Ciencia Política</i> , 2019, 39, 99-127.	0.1	5

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55	Revealing interactions between polyaza pyridinophane compounds and DNA/RNA polynucleotides by SERS spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 863-872.	1.2	4
56	Specific and highly efficient condensation of GC and IC DNA by polyaza pyridinophane derivatives. <i>International Journal of Biological Macromolecules</i> , 2018, 109, 143-151.	3.6	4
57	Acid-base behaviour and binding to double stranded DNA/RNA of benzo[ <i>g</i> ]phthalazine-based ligands. <i>New Journal of Chemistry</i> , 2019, 43, 700-708.	1.4	4
58	Alkaloids as Photosensitisers for the Inactivation of Bacteria. <i>Antibiotics</i> , 2021, 10, 1505.	1.5	4
59	Mechanochemical Complexation of Diethyl N,N'-[1,3-(2-methyl)phenyl]dioxalamate and Resorcinol: Conformational Twist and X-Ray Helical Supramolecular Architecture. <i>Journal of Chemical Crystallography</i> , 2015, 45, 244-250.	0.5	3
60	3-(Piperidin-1-ium-1-yl)-6-azoniaspiro[5.5]undecane dibromide monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, o1308-o1309.	0.2	2
61	Enhanced Parallel Sine Cosine Algorithm for Constrained and Unconstrained Optimization. <i>Mathematics</i> , 2022, 10, 1166.	1.1	2
62	Ditopic Aza-Scorpiand Ligands Interact Selectively with ds-RNA and Modulate the Interaction upon Formation of Zn <sup>2+</sup> Complexes. <i>Molecules</i> , 2021, 26, 3957.	1.7	1
63	Progress in Antiparasitic Drug Discovery: From the Laboratory Bench to the Collaborative Initiatives. <i>Current Topics in Medicinal Chemistry</i> , 2019, 18, 2199-2200.	1.0	0