

# Rodrigo R Del Rio

## List of Publications by Year in descending order

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96  
papers

3,273  
citations

126858

33  
h-index

168321

53  
g-index

96  
all docs

96  
docs citations

96  
times ranked

3395  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extracellular Cysteine in Connexins: Role as Redox Sensors. <i>Frontiers in Physiology</i> , 2016, 7, 1.	1.3	247
2	Chronic intermittent hypoxia enhances cat chemosensory and ventilatory responses to hypoxia. <i>Journal of Physiology</i> , 2004, 560, 577-586.	1.3	184
3	Carotid Chemoreceptor Ablation Improves Survival in Heart Failure. <i>Journal of the American College of Cardiology</i> , 2013, 62, 2422-2430.	1.2	167
4	Carotid body denervation improves autonomic and cardiac function and attenuates disordered breathing in congestive heart failure. <i>Journal of Physiology</i> , 2014, 592, 391-408.	1.3	137
5	A Chemical, Morphological, and Electrochemical (XPS, SEM/EDX, CV, and EIS) Analysis of Electrochemically Modified Electrode Surfaces of Natural Chalcopyrite (CuFeS <sub>2</sub> ) and Pyrite (FeS <sub>2</sub> ) in Alkaline Solutions. <i>Journal of Physical Chemistry B</i> , 2005, 109, 4977-4988.	1.2	113
6	Carotid body inflammation and cardiorespiratory alterations in intermittent hypoxia. <i>European Respiratory Journal</i> , 2012, 39, 1492-1500.	3.1	111
7	Carotid Body Ablation Abrogates Hypertension and Autonomic Alterations Induced by Intermittent Hypoxia in Rats. <i>Hypertension</i> , 2016, 68, 436-445.	1.3	90
8	Reactivity of electrodes modified with substituted metallophthalocyanines. Correlations with redox potentials, Hammett parameters and donor?acceptor intermolecular hardness. <i>Electrochimica Acta</i> , 2001, 46, 3227-3235.	2.6	88
9	Contribution of endothelin-1 to the enhanced carotid body chemosensory responses induced by chronic intermittent hypoxia. <i>Brain Research</i> , 2006, 1086, 152-159.	1.1	82
10	Carotid body chemoreceptors, sympathetic neural activation, and cardiometabolic disease. <i>Biological Research</i> , 2016, 49, 13.	1.5	78
11	An Electrochemical Deposition Route for Obtaining $\hat{\pm}$ -Fe[sub 2]O[sub 3] Thin Films. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, C110.	2.2	77
12	Differential expression of pro-inflammatory cytokines, endothelin-1 and nitric oxide synthases in the rat carotid body exposed to intermittent hypoxia. <i>Brain Research</i> , 2011, 1395, 74-85.	1.1	74
13	Carotid body potentiation induced by intermittent hypoxia: Implications for cardiorespiratory changes induced by sleep apnoea. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2009, 36, 1197-1204.	0.9	73
14	Role of the Carotid Body in the Pathophysiology of Heart Failure. <i>Current Hypertension Reports</i> , 2013, 15, 356-362.	1.5	66
15	Neuroinflammation in heart failure: new insights for an old disease. <i>Journal of Physiology</i> , 2020, 598, 33-59.	1.3	62
16	Mechanisms of carotid body chemoreflex dysfunction during heart failure. <i>Experimental Physiology</i> , 2015, 100, 124-129.	0.9	58
17	An Electrochemical Deposition Route for Obtaining $\hat{\pm}$ -Fe[sub 2]O[sub 3] Thin Films. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, D95.	2.2	51
18	Electrosynthesis of polythiophene nanowires via mesoporous silica thin film templates. <i>Electrochemistry Communications</i> , 2009, 11, 2117-2120.	2.3	50

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19	Electrosynthesis and Electrochemical Characterization of a Thin Phase of CuxS (x=2) on ITO Electrode. <i>Langmuir</i> , 2002, 18, 8647-8654.	1.6	49
20	Corrosion protection of carbon steel and copper by polyaniline and poly(ortho-methoxyaniline) films in sodium chloride medium. Electrochemical and morphological study. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 519-525.	1.5	46
21	Inhibition of hydrogen sulfide restores normal breathing stability and improves autonomic control during experimental heart failure. <i>Journal of Applied Physiology</i> , 2013, 114, 1141-1150.	1.2	46
22	Contribution of peripheral and central chemoreceptors to sympathetic excitation in heart failure. <i>Journal of Physiology</i> , 2017, 595, 43-51.	1.3	46
23	Use of fluorine-doped tin oxide electrodes for lipoic acid determination in dietary supplements. <i>Journal of Electroanalytical Chemistry</i> , 2012, 668, 1-6.	1.9	44
24	Selective electrochemical determination of dopamine, using a poly(3,4-ethylenedioxythiophene)/polydopamine hybrid film modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2013, 704, 130-136.	1.9	44
25	Simvastatin Treatment Attenuates Increased Respiratory Variability and Apnea/Hypopnea Index in Rats With Chronic Heart Failure. <i>Hypertension</i> , 2014, 63, 1041-1049.	1.3	44
26	Enhanced carotid body chemosensory activity and the cardiovascular alterations induced by intermittent hypoxia. <i>Frontiers in Physiology</i> , 2014, 5, 468.	1.3	44
27	Inflammation and oxidative stress during intermittent hypoxia: the impact on chemoreception. <i>Experimental Physiology</i> , 2015, 100, 149-155.	0.9	43
28	Synaptic Functions of Hemichannels and Pannexons: A Double-Edged Sword. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 435.	1.4	42
29	Corrosion inhibition of copper in chloride media by 1,5-bis(4-dithiocarboxylate-1-dodecyl-5-hydroxy-3-methylpyrazolyl)pentane. <i>Corrosion Science</i> , 2008, 50, 729-736.	3.0	40
30	Chronic intermittent hypoxia-induced vascular enlargement and VEGF upregulation in the rat carotid body is not prevented by antioxidant treatment. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2011, 301, L702-L711.	1.3	39
31	Cardiac diastolic and autonomic dysfunction are aggravated by central chemoreflex activation in heart failure with preserved ejection fraction rats. <i>Journal of Physiology</i> , 2017, 595, 2479-2495.	1.3	38
32	Chronocoulometric Study of the Electrochemistry of Prussian Blue. <i>Journal of Physical Chemistry B</i> , 2005, 109, 15483-15488.	1.2	35
33	Role of the Carotid Body Chemoreflex in the Pathophysiology of Heart Failure: A Perspective from Animal Studies. <i>Advances in Experimental Medicine and Biology</i> , 2015, 860, 167-185.	0.8	35
34	Characterization of a novel and genetically different small infective variant of <i>Piscirickettsia salmonis</i> . <i>Microbial Pathogenesis</i> , 2008, 44, 370-378.	1.3	33
35	Carotid body potentiation during chronic intermittent hypoxia: implication for hypertension. <i>Frontiers in Physiology</i> , 2014, 5, 434.	1.3	32
36	Central role of carotid body chemoreceptors in disordered breathing and cardiorenal dysfunction in chronic heart failure. <i>Frontiers in Physiology</i> , 2014, 5, 438.	1.3	32

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37	Neurobehavioral and autonomic alterations in adults with obstructive sleep apnea. <i>Sleep Medicine</i> , 2014, 15, 1319-1323.	0.8	32
38	Cardiovascular and ventilatory acclimatization induced by chronic intermittent hypoxia: A role for the carotid body in the pathophysiology of sleep apnea. <i>Biological Research</i> , 2005, 38, 335-40.	1.5	31
39	Benefits of oxytocin administration in obstructive sleep apnea. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 313, L825-L833.	1.3	31
40	Carotid Body-Mediated Chemoreflex Drive in The Setting of low and High Output Heart Failure. <i>Scientific Reports</i> , 2017, 7, 8035.	1.6	29
41	Characterization of pure ZnO thin films prepared by a direct photochemical method. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4088-4092.	1.5	26
42	Arginase endothelial nitric oxide synthase imbalance contributes to endothelial dysfunction during chronic intermittent hypoxia. <i>Journal of Hypertension</i> , 2015, 33, 515-524.	0.3	25
43	KLF2 mediates enhanced chemoreflex sensitivity, disordered breathing and autonomic dysregulation in heart failure. <i>Journal of Physiology</i> , 2018, 596, 3171-3185.	1.3	24
44	Cardiorespiratory Alterations Induced by Intermittent Hypoxia in a Rat Model of Sleep Apnea. <i>Advances in Experimental Medicine and Biology</i> , 2010, 669, 271-274.	0.8	23
45	Electrochemistry of methimazole on fluorine-doped tin oxide electrodes and its square-wave voltammetric determination in pharmaceutical formulations. <i>Electrochimica Acta</i> , 2013, 88, 871-876.	2.6	23
46	Cognitive impairment in heart failure is associated with altered Wnt signaling in the hippocampus. <i>Aging</i> , 2019, 11, 5924-5942.	1.4	23
47	Captopril Electrochemical Oxidation on Fluorine-Doped SnO <sub>2</sub> Electrodes and Their Determination in Pharmaceutical Preparations. <i>Electroanalysis</i> , 2010, 22, 2269-2276.	1.5	22
48	Relevance of the Carotid Body Chemoreflex in the Progression of Heart Failure. <i>BioMed Research International</i> , 2015, 2015, 1-7.	0.9	22
49	Intermittent Hypoxia-Induced Carotid Body Chemosensory Potentiation and Hypertension Are Critically Dependent on Peroxynitrite Formation. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-9.	1.9	22
50	Selective carotid body ablation in experimental heart failure: a new therapeutic tool to improve cardiorespiratory control. <i>Experimental Physiology</i> , 2015, 100, 136-142.	0.9	21
51	Endothelins in the cat petrosal ganglion and carotid body: Effects and immunolocalization. <i>Brain Research</i> , 2006, 1069, 154-158.	1.1	19
52	Role of neurotransmitter gases in the control of the carotid body in heart failure. <i>Respiratory Physiology and Neurobiology</i> , 2012, 184, 197-203.	0.7	19
53	Inhibition of rat carotid body glomus cells TASK-like channels by acute hypoxia is enhanced by chronic intermittent hypoxia. <i>Respiratory Physiology and Neurobiology</i> , 2013, 185, 600-607.	0.7	18
54	Exercise training attenuates chemoreflex-mediated reductions of renal blood flow in heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H259-H266.	1.5	18

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55	Electrosynthesis of Cu <sup>2+</sup> /Se Films on Copper Electrodes in Alkaline Media: A Voltammetric, Electrochemical Quartz Crystal Microbalance and Transient Study. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3212-3221.	1.2	17
56	Temperature Effect on Nucleation and Growth Mechanism of Poly( <i>o</i> -anisidine) and Poly(aniline) Electro-Synthesis. <i>Journal of the Electrochemical Society</i> , 2013, 160, G125-G134.	1.3	16
57	Editorial: Carotid body: a new target for rescuing neural control of cardiorespiratory balance in disease. <i>Frontiers in Physiology</i> , 2015, 6, 181.	1.3	16
58	Episodic stimulation of central chemoreceptor neurons elicits disordered breathing and autonomic dysfunction in volume overload heart failure. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L27-L40.	1.3	15
59	Carbon monoxide: A new player in the redox regulation of connexin hemichannels. <i>IUBMB Life</i> , 2015, 67, 428-437.	1.5	14
60	Rostral ventrolateral medullary catecholaminergic neurones mediate irregular breathing pattern in volume overload heart failure rats. <i>Journal of Physiology</i> , 2019, 597, 5799-5820.	1.3	14
61	Contribution of Endothelin-1 and Endothelin A and B Receptors to the Enhanced Carotid Body Chemosensory Responses Induced by Chronic Intermittent Hypoxia. <i>Advances in Experimental Medicine and Biology</i> , 2008, 605, 228-232.	0.8	13
62	Electrochemistry behavior of endogenous thiols on fluorine doped tin oxide electrodes. <i>Electrochimica Acta</i> , 2011, 56, 8711-8717.	2.6	13
63	Gap-junctional channel and hemichannel activity of two recently identified connexin 26 mutants associated with deafness. <i>Pflügers Archiv European Journal of Physiology</i> , 2016, 468, 909-918.	1.3	13
64	Understanding the loss of electrochemical activity of nanosized LiMn <sub>2</sub> O <sub>4</sub> particles: a combined experimental and <i>ab initio</i> DFT study. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14967-14974.	5.2	13
65	CdS amorphous thin films photochemical synthesis and optical characterization. <i>Materials Science in Semiconductor Processing</i> , 2008, 11, 94-99.	1.9	12
66	SCANNING ELECTRON MICROSCOPY AND ATOMIC FORCE MICROSCOPY OF CHITOSAN COMPOSITE FILMS. <i>Journal of the Chilean Chemical Society</i> , 2010, 55, 352-354.	0.5	12
67	Modulatory effects of histamine on cat carotid body chemoreception. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 401-410.	0.7	11
68	Revisiting the physiological effects of exercise training on autonomic regulation and chemoreflex control in heart failure: does ejection fraction matter?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 314, H464-H474.	1.5	11
69	Crucial Role of the Carotid Body Chemoreceptors on the Development of High Arterial Blood Pressure During Chronic Intermittent Hypoxia. <i>Advances in Experimental Medicine and Biology</i> , 2015, 860, 255-260.	0.8	10
70	POLY-O-AMINOPHENOL OBTAINED AT HIGH POTENTIALS BY CYCLIC VOLTAMMETRY ON SnO <sub>2</sub> : F ELECTRODES: APPLICATION IN QUANTITATIVE DETERMINATION OF ASCORBIC ACID. <i>Journal of the Chilean Chemical Society</i> , 2009, 54, .	0.5	9
71	The carotid body and its relevance in pathophysiology. <i>Experimental Physiology</i> , 2015, 100, 121-123.	0.9	9
72	Ventilatory and Autonomic Regulation in Sleep Apnea Syndrome: A Potential Protective Role for Erythropoietin?. <i>Frontiers in Physiology</i> , 2018, 9, 1440.	1.3	9

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73	Anodic Electrosynthesis of a Thin Film of Cu <sub>2</sub> S on a Gold Electrode. A Voltammetric, Nanoelectrogravimetric, and I/t Transient Study. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12684-12692.	1.2	7
74	Electrosynthesis, characterization and electrocatalytic properties of Prussian Blue (PB) nanoparticles disposed on a template. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 1303-1308.	1.2	7
75	Electro-Oxidation of Nitrite Using an Oxidized Glassy Carbon Electrode as Amperometric Sensor. <i>Electrocatalysis</i> , 2015, 6, 300-307.	1.5	6
76	Heart rate variability alterations in infants with spontaneous hypertonia. <i>Pediatric Research</i> , 2019, 86, 77-84.	1.1	6
77	Seed layer effect on morphological, structural, and optical properties of electrochemically grown ZnO nanowires over different SnO <sub>2</sub> :F/glass substrates. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 797-808.	1.2	6
78	Chronic Intermittent Hypoxia Enhances Carotid Body Chemosensory Responses to Acute Hypoxia. , 2006, 580, 227-232.		6
79	INVESTIGATION AND OPTICAL EVALUATION OF PRECURSORS FOR THE PHOTODEPOSITION OF NANOSIZED ZnS AMORPHOUS THIN FILMS. <i>Journal of the Chilean Chemical Society</i> , 2007, 52, .	0.5	5
80	Carotid Body Type-I Cells Under Chronic Sustained Hypoxia: Focus on Metabolism and Membrane Excitability. <i>Frontiers in Physiology</i> , 2018, 9, 1282.	1.3	5
81	Acute Effects of Systemic Erythropoietin Injections on Carotid Body Chemosensory Activity Following Hypoxic and Hypercapnic Stimulation. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1071, 95-102.	0.8	5
82	Role of Endothelin-1 on the Enhanced Carotid Body Activity Induced by Chronic Intermittent Hypoxia. , 2006, 580, 345-350.		5
83	New Aspects of the Electroadsorption of Ethyl Xanthate on Copper Electrodes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22920-22927.	1.2	4
84	MODIFICATION OF BORON DOPED DIAMOND ELECTRODES WITH GLUCOSE OXIDASE, CHARACTERIZATION BY ELECTROCHEMICAL TECHNIQUES. <i>Journal of the Chilean Chemical Society</i> , 2011, 56, 621-624.	0.5	4
85	ELECTRODES MODIFIED BY &#928; STACKING OF METALLIC PHTHALOCYANINES AND ITS ELECTROCATALYTIC ACTIVITY ON NITRITE OXIDATION. <i>Journal of the Chilean Chemical Society</i> , 2013, 58, 1971-1975.	0.5	3
86	A Potentiostatic and Atomic Force Microscopy Study of the Nucleation and Growth Mechanisms of Certain Metallic Cyanometalates. <i>Journal of Physical Chemistry C</i> , 2007, 111, 17541-17550.	1.5	2
87	Modification of composites of block copolymers&#x201c;gold nanoparticles with enzymes and their characterization by electrochemical techniques. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 697-702.	1.2	2
88	Commentaries on Viewpoint: Precedence and autocracy in breathing control. <i>Journal of Applied Physiology</i> , 2015, 118, 1557-1559.	1.2	2
89	ELECTROCHEMICAL AND SPECTROSCOPIC PROPERTIES OF INDOLIZINO[1,2-B] QUINOLE DERIVATES. <i>Journal of the Chilean Chemical Society</i> , 2013, 58, 1976-1979.	0.5	1
90	Reply from Noah J. Marcus, Rodrigo Del Rio and Harold D. Schultz. <i>Journal of Physiology</i> , 2014, 592, 1905-1906.	1.3	1

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91	Topical Application of Connexin43 Hemichannel Blocker Reduces Carotid Body-Mediated Chemoreflex Drive in Rats. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1071, 61-68.	0.8	1
92	Hypothyroidism affects D2 receptor-mediated breathing without altering D2 receptor expression. <i>Respiratory Physiology and Neurobiology</i> , 2014, 193, 29-37.	0.7	0
93	In adult female hamsters hypothyroidism stimulates D1 receptor-mediated breathing without altering D1 receptor expression. <i>Respiratory Physiology and Neurobiology</i> , 2015, 218, 32-39.	0.7	0
94	Chronic phenytoin treatment reduces rat carotid body chemosensory responses to acute hypoxia. <i>Brain Research</i> , 2016, 1649, 38-43.	1.1	0
95	July ECI biocommentary. <i>Pediatric Research</i> , 2019, 86, 9-9.	1.1	0
96	Comparison of Different Synthetic Routes of Hybrid Hematite-TiO <sub>2</sub> Nanotubes-Based Electrodes. <i>Materials</i> , 2021, 14, 4501.	1.3	0