

# Domenico Spina

## 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.

97 papers	4,015 citations	31 h-index	62 g-index
108 ext. papers	4,471 ext. citations	5.1 avg, IF	5.3 L-index

#	Paper	IF	Citations
97	Phosphodiesterase inhibitors. <i>British Journal of Pharmacology</i> , <b>2006</b> , 147 Suppl 1, S252-7	8.6	303
96	Platelets are essential for leukocyte recruitment in allergic inflammation. <i>Journal of Allergy and Clinical Immunology</i> , <b>2003</b> , 112, 109-18	11.5	173
95	Platelet P-selectin is required for pulmonary eosinophil and lymphocyte recruitment in a murine model of allergic inflammation. <i>Blood</i> , <b>2005</b> , 105, 2074-81	2.2	164
94	Influence of the epithelium on responsiveness of guinea-pig isolated trachea to contractile and relaxant agonists. <i>British Journal of Pharmacology</i> , <b>1986</b> , 87, 5-14	8.6	143
93	A distinct role for transient receptor potential ankyrin 1, in addition to transient receptor potential vanilloid 1, in tumor necrosis factor $\alpha$ -induced inflammatory hyperalgesia and Freund's complete adjuvant-induced monoarthritis. <i>Arthritis and Rheumatism</i> , <b>2011</b> , 63, 819-29		125
92	Platelets are necessary for airway wall remodeling in a murine model of chronic allergic inflammation. <i>Blood</i> , <b>2004</b> , 103, 639-47	2.2	120
91	Selective PDE inhibitors as novel treatments for respiratory diseases. <i>Current Opinion in Pharmacology</i> , <b>2012</b> , 12, 275-86	5.1	116
90	Phosphodiesterase-4 inhibitors in the treatment of inflammatory lung disease. <i>Drugs</i> , <b>2003</b> , 63, 2575-94	12.1	100
89	Efficacy and safety of RPL554, a dual PDE3 and PDE4 inhibitor, in healthy volunteers and in patients with asthma or chronic obstructive pulmonary disease: findings from four clinical trials. <i>Lancet Respiratory Medicine</i> , <b>2013</b> , 1, 714-27	35.1	98
88	Fucosylated chondroitin sulfates from the body wall of the sea cucumber <i>Holothuria forskali</i> : conformation, selectin binding, and biological activity. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 28284-98	5.4	76
87	The pharmacology of two novel long-acting phosphodiesterase 3/4 inhibitors, RPL554 [9,10-dimethoxy-2(2,4,6-trimethylphenylimino)-3-(n-carbamoyl-2-aminoethyl)-3,4,6,7-tetrahydro-2H-pyrimido[6,1-a]isoquinolin-4-one] and RPL565 [6,7-dihydro-2-(2,6-diisopropylphenoxy)-9,10-dimethoxy-4H-pyrimido[6,1-a]isoquinolin-4-one]. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2006</b> , 318, 840-8	4.7	69
86	The pharmacology of cough. <i>Trends in Pharmacological Sciences</i> , <b>2004</b> , 25, 569-76	13.2	68
85	Effect of the mixed phosphodiesterase 3/4 inhibitor RPL554 on human isolated bronchial smooth muscle tone. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2013</b> , 346, 414-23	4.7	67
84	Variability Analysis of Multiport Systems Via Polynomial-Chaos Expansion. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2012</b> , 60, 2329-2338	4.1	63
83	Immunohistochemical localization of vanilloid receptor subtype 1 (TRPV1) in the guinea pig respiratory system. <i>Pulmonary Pharmacology and Therapeutics</i> , <b>2005</b> , 18, 187-97	3.5	63
82	Quantitative assessment of nanoparticle surface hydrophobicity and its influence on pulmonary biocompatibility. <i>Journal of Controlled Release</i> , <b>2014</b> , 183, 94-104	11.7	59
81	Pulmonary Inflammation Impacts on CYP1A1-Mediated Respiratory Tract DNA Damage Induced by the Carcinogenic Air Pollutant Benzo[a]pyrene. <i>Toxicological Sciences</i> , <b>2015</b> , 146, 213-25	4.4	57

80	P-Rex and Vav Rac-GEFs in platelets control leukocyte recruitment to sites of inflammation. <i>Blood</i> , <b>2015</b> , 125, 1146-58	2.2	49
79	Review of Polynomial Chaos-Based Methods for Uncertainty Quantification in Modern Integrated Circuits. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 30	2.6	45
78	A role for MC3R in modulating lung inflammation. <i>Pulmonary Pharmacology and Therapeutics</i> , <b>2008</b> , 21, 866-73	3.5	44
77	Characterization of the anandamide induced depolarization of guinea-pig isolated vagus nerve. <i>British Journal of Pharmacology</i> , <b>2002</b> , 137, 39-48	8.6	43
76	Adenosine receptors and asthma. <i>Handbook of Experimental Pharmacology</i> , <b>2009</b> , 329-62	3.2	42
75	PDE4-inhibitors: a novel, targeted therapy for obstructive airways disease. <i>Pulmonary Pharmacology and Therapeutics</i> , <b>2011</b> , 24, 353-60	3.5	41
74	Classification of beta-adrenoceptors in human isolated bronchus. <i>British Journal of Pharmacology</i> , <b>1984</b> , 81, 611-5	8.6	39
73	The potential of PDE4 inhibitors in respiratory disease. <i>Inflammation and Allergy: Drug Targets</i> , <b>2004</b> , 3, 231-6		37
72	Current and novel bronchodilators in respiratory disease. <i>Current Opinion in Pulmonary Medicine</i> , <b>2014</b> , 20, 73-86	3	36
71	Modulation of sensory nerve function in the airways. <i>Trends in Pharmacological Sciences</i> , <b>1998</b> , 19, 460-6	13.2	35
70	Bronchial hyperresponsiveness induced by chronic treatment with albuterol: Role of sensory nerves. <i>Journal of Allergy and Clinical Immunology</i> , <b>2002</b> , 110, 388-94	11.5	35
69	Pharmacological characterization of adenosine receptors on isolated human bronchi. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2011</b> , 45, 1222-31	5.7	34
68	Efficient Variability Analysis of Electromagnetic Systems Via Polynomial Chaos and Model Order Reduction. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2014</b> , 4, 1038-1051	1.7	32
67	Getting to the heart of asthma: can "beta blockers" be useful to treat asthma? <b>2007</b> , 115, 360-74		31
66	Measurement Uncertainty Propagation in Transistor Model Parameters via Polynomial Chaos Expansion. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2017</b> , 27, 572-574	2.6	30
65	The role of heparanase in pulmonary cell recruitment in response to an allergic but not non-allergic stimulus. <i>PLoS ONE</i> , <b>2015</b> , 10, e0127032	3.7	30
64	Mechanism of adenosine-induced airways obstruction in allergic guinea pigs. <i>British Journal of Pharmacology</i> , <b>2006</b> , 147, 720-8	8.6	29
63	Asthma -- a need for a rethink?. <i>Trends in Pharmacological Sciences</i> , <b>2002</b> , 23, 311-5	13.2	28

62	Long-term effects of anti-tumour necrosis factor therapy on weight in patients with rheumatoid arthritis. <i>Clinical Rheumatology</i> , <b>2012</b> , 31, 455-61	3.9	27
61	Investigating the potential role of TRPA1 in locomotion and cardiovascular control during hypertension. <i>Pharmacology Research and Perspectives</i> , <b>2014</b> , 2, e00052	3.1	27
60	Immunohistochemical localization of transient receptor potential vanilloid subtype 1 in the trachea of ovalbumin-sensitized Guinea pigs. <i>International Archives of Allergy and Immunology</i> , <b>2008</b> , 146 Suppl 1, 28-32	3.7	26
59	Beta-adrenoceptor desensitization in guinea-pig isolated trachea. <i>European Journal of Pharmacology</i> , <b>1988</b> , 157, 135-45	5.3	25
58	The rabbit as an experimental and production animal: from genomics to proteomics. <i>Current Protein and Peptide Science</i> , <b>2014</b> , 15, 134-45	2.8	24
57	A comparison of sensory nerve function in human, guinea-pig, rabbit and marmoset airways. <i>Life Sciences</i> , <b>1998</b> , 63, 1629-42	6.8	23
56	Theophylline and PDE4 inhibitors in asthma. <i>Current Opinion in Pulmonary Medicine</i> , <b>2003</b> , 9, 57-64	3	22
55	Pharmacology of airway irritability. <i>Current Opinion in Pharmacology</i> , <b>2002</b> , 2, 264-72	5.1	22
54	Stochastic Macromodeling of Nonlinear Systems Via Polynomial Chaos Expansion and Transfer Function Trajectories. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2014</b> , 62, 1454-1460	4.1	20
53	Stochastic collocation for device-level variability analysis in integrated photonics. <i>Photonics Research</i> , <b>2016</b> , 4, 93	6	20
52	Quantification of microcirculatory blood flow: a sensitive and clinically relevant prognostic marker in murine models of sepsis. <i>Journal of Applied Physiology</i> , <b>2015</b> , 118, 344-54	3.7	19
51	PDE4 inhibitors as potential therapeutic agents in the treatment of COPD-focus on roflumilast. <i>International Journal of COPD</i> , <b>2007</b> , 2, 121-9	3	19
50	Adenosine induces a cholinergic tracheal reflex contraction in guinea pigs in vivo via an adenosine A1 receptor-dependent mechanism. <i>Journal of Applied Physiology</i> , <b>2008</b> , 105, 187-96	3.7	18
49	The effect of phytocannabinoids on airway hyper-responsiveness, airway inflammation, and cough. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2015</b> , 353, 169-80	4.7	17
48	Mycobacterium tuberculosis chaperonin 60.1 inhibits leukocyte diapedesis in a murine model of allergic lung inflammation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2012</b> , 47, 245-52	5.7	16
47	Pharmacokinetic and pharmacodynamic profile following oral administration of the phosphodiesterase (PDE)4 inhibitor V11294A in healthy volunteers. <i>British Journal of Clinical Pharmacology</i> , <b>2002</b> , 54, 478-84	3.8	15
46	Lung inflammation does not affect the clearance kinetics of lipid nanocapsules following pulmonary administration. <i>Journal of Controlled Release</i> , <b>2016</b> , 235, 24-33	11.7	14
45	Pharmacology of novel treatments for COPD: are fixed dose combination LABA/LAMA synergistic?. <i>European Clinical Respiratory Journal</i> , <b>2015</b> , 2,	2	14

44	Adenosine monophosphate is elevated in the bronchoalveolar lavage fluid of mice with acute respiratory toxicity induced by nanoparticles with high surface hydrophobicity. <i>Nanotoxicology</i> , <b>2015</b> , 9, 106-15	5.3	14
43	Pharmacology of a new cyclic nucleotide phosphodiesterase type 4 inhibitor, V11294. <i>Pulmonary Pharmacology and Therapeutics</i> , <b>2003</b> , 16, 97-104	3.5	14
42	Polynomial chaos-based macromodeling of multiport systems using an inputOutput approach. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , <b>2015</b> , 28, 562-581	1	12
41	Ozone-Induced Hypertussive Responses in Rabbits and Guinea Pigs. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2016</b> , 357, 73-83	4.7	12
40	The effect duration of selective phosphodiesterase inhibitors in the guinea pig. <i>Life Sciences</i> , <b>1998</b> , 62, 953-65	6.8	12
39	Beta2-agonists and bronchial hyperresponsiveness. <i>Clinical Reviews in Allergy and Immunology</i> , <b>2006</b> , 31, 143-62	12.3	11
38	Lack of difference in pulmonary absorption of digoxin, a P-glycoprotein substrate, in mdr1a-deficient and mdr1a-competent mice. <i>Journal of Pharmacy and Pharmacology</i> , <b>2008</b> , 60, 1305-10	4.8	11
37	A Comprehensive and Modular Stochastic Modeling Framework for the Variability-Aware Assessment of Signal Integrity in High-Speed Links. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2018</b> , 60, 459-467	2	11
36	Polynomial Chaos-Based Macromodeling of General Linear Multiport Systems for Time-Domain Analysis. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 1422-1433	4.1	10
35	Antitussive effect of carcainium chloride in patients with chronic cough and idiopathic interstitial pneumonias: A pilot study. <i>Pulmonary Pharmacology and Therapeutics</i> , <b>2016</b> , 40, 91-4	3.5	10
34	Machine Learning Based Error Detection in Transient Susceptibility Tests. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2019</b> , 61, 352-360	2	10
33	Data-Efficient Bayesian Optimization with Constraints for Power Amplifier Design <b>2018</b> ,		10
32	Time-Domain Green's Function-Based Parametric Sensitivity Analysis of Multiconductor Transmission Lines. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2012</b> , 2, 1510-1517	1.7	9
31	Numerical modeling of a linear photonic system for accurate and efficient time-domain simulations. <i>Photonics Research</i> , <b>2018</b> , 6, 560	6	8
30	Models used in the development of antitussive drugs. <i>Drug Discovery Today: Disease Models</i> , <b>2004</b> , 1, 297-302	1.3	8
29	Autoradiographic localisation of ascorbic acid-dependent binding sites for [125I]iodocyanopindolol in guinea-pig trachea. <i>European Journal of Pharmacology</i> , <b>1986</b> , 124, 179-82	5.3	8
28	A Machine-Learning-Based Epistemic Modeling Framework for Textile Antenna Design. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2019</b> , 18, 2292-2296	3.8	7
27	Machine-Learning-Based Error Detection and Design Optimization in Signal Integrity Applications. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2019</b> , 9, 1712-1720	1.7	7

26	Overexpression of GTP cyclohydrolase 1 feedback regulatory protein is protective in a murine model of septic shock. <i>Shock</i> , <b>2014</b> , 42, 432-9	3.4	7
25	Effect of hypothermia on beta 1-adrenoceptor-mediated relaxation of pig bronchus. <i>British Journal of Pharmacology</i> , <b>1983</b> , 80, 699-702	8.6	7
24	Acute lung injury induced by intestinal ischemia and reperfusion is altered in obese female mice. <i>Pulmonary Pharmacology and Therapeutics</i> , <b>2018</b> , 49, 54-59	3.5	6
23	Structural characterization and anti-inflammatory activity of two novel polysaccharides from the sea squirt, <i>Ascidella aspersa</i> . <i>Pulmonary Pharmacology and Therapeutics</i> , <b>2016</b> , 40, 69-79	3.5	6
22	Machine-Learning-Based Hybrid Random-Fuzzy Uncertainty Quantification for EMC and SI Assessment. <i>IEEE Transactions on Electromagnetic Compatibility</i> , <b>2020</b> , 62, 2538-2546	2	5
21	Protease inhibitors in respiratory disease: focus on asthma and chronic obstructive pulmonary disease. <i>Expert Review of Clinical Immunology</i> , <b>2007</b> , 3, 365-81	5.1	5
20	Baseband Macromodeling of Linear Photonic Circuits for Time-Domain Simulations. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 1364-1373	4	4
19	<b>2017,</b>		4
18	Airway nerves: neurotransmitter release. <i>Current Opinion in Pharmacology</i> , <b>2002</b> , 2, 283-5	5.1	4
17	Bayesian active learning for electromagnetic structure design <b>2020,</b>		4
16	Airway irritability--a burning issue?. <i>Current Opinion in Pharmacology</i> , <b>2009</b> , 9, 530-4	5.1	3
15	What have transgenic and knockout animals taught us about respiratory disease?. <i>Respiratory Research</i> , <b>2000</b> , 1, 82-6	7.3	3
14	Statistical modeling of frequency responses using linear Bayesian vector fitting. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , <b>2020</b> , 33, e2762	1	2
13	Parameterized macromodeling of stochastic linear systems for frequency- and time-domain variability analysis <b>2018,</b>		2
12	Time-domain compact macromodeling of linear photonic circuits via complex vector fitting. <i>Photonics Research</i> , <b>2019</b> , 7, 771	6	2
11	From Parameter Extraction, Variability Models to Yield Prediction <b>2018,</b>		2
10	Automated Framework for Time-Domain Piecewise-Linear Fitting Method Based on Digital Wave Processing of SSS -Parameters. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2020</b> , 67, 235-248	3.8	2
9	Pharmacology of Peripherally Acting Antitussives		1

8	Effective time-domain approach for the assessment of the stability characteristics and other non-linear effects of RF and microwave circuits. <i>IET Microwaves, Antennas and Propagation</i> , <b>2019</b> , 13, 2470-2479	1.6	1
7	Bayesian active learning for multi-objective feasible region identification in microwave devices. <i>Electronics Letters</i> , <b>2021</b> , 57, 400-403	1.1	1
6	Efficient Time-Domain Modeling and Simulation of Passive Bandpass Systems <b>2019</b> ,		1
5	Autoencoding Density-Based Anomaly Detection for Signal Integrity Applications <b>2018</b> ,		1
4	Fast and Accurate Time-Domain Simulation of Passive Photonic Systems <b>2018</b> ,		1
3	Statistical methods in research. <i>Methods in Molecular Biology</i> , <b>2011</b> , 746, 443-72	1.4	0
2	Time-Domain Characterization of Photonic Integrated Filters Subject to Fabrication Variations. <i>Journal of Lightwave Technology</i> , <b>2019</b> , 37, 5561-5570	4	
1	Adaptive sampling with automatic stopping for feasible region identification in engineering design. <i>Engineering With Computers</i> , 1	4.5	