Domenico Spina

List of Publications by Year in Descending Order

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	Bayesian active learning for multi-objective feasible region identification in microwave devices. *Electronics Letters*, **2021**, 57, 400-403	1.1	1
96	Statistical modeling of frequency responses using linear Bayesian vector fitting. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2020**, 33, e2762	1	2
95	Machine-Learning-Based Hybrid Random-Fuzzy Uncertainty Quantification for EMC and SI Assessment. *IEEE Transactions on Electromagnetic Compatibility*, **2020**, 62, 2538-2546	2	5
94	Automated Framework for Time-Domain Piecewise-Linear Fitting Method Based on Digital Wave Processing of S -Parameters. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2020**, 67, 235-248	3.9	2
93	Bayesian active learning for electromagnetic structure design **2020**,		4
92	A Machine-Learning-Based Epistemic Modeling Framework for Textile Antenna Design. *IEEE Antennas and Wireless Propagation Letters*, **2019**, 18, 2292-2296	3.8	7
91	Time-Domain Characterization of Photonic Integrated Filters Subject to Fabrication Variations. *Journal of Lightwave Technology*, **2019**, 37, 5561-5570	4	
90	Baseband Macromodeling of Linear Photonic Circuits for Time-Domain Simulations. *Journal of Lightwave Technology*, **2019**, 37, 1364-1373	4	4
89	Machine Learning Based Error Detection in Transient Susceptibility Tests. *IEEE Transactions on Electromagnetic Compatibility*, **2019**, 61, 352-360	2	10
88	Machine-Learning-Based Error Detection and Design Optimization in Signal Integrity Applications. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2019**, 9, 1712-1720	1.7	7
87	Time-domain compact macromodeling of linear photonic circuits via complex vector fitting. *Photonics Research*, **2019**, 7, 771	6	2
86	Effective time-domain approach for the assessment of the stability characteristics and other non-linear effects of RF and microwave circuits. *IET Microwaves, Antennas and Propagation*, **2019**, 13, 2470-2479	1.6	1
85	Efficient Time-Domain Modeling and Simulation of Passive Bandpass Systems **2019**,		1
84	Acute lung injury induced by intestinal ischemia and reperfusion is altered in obese female mice. *Pulmonary Pharmacology and Therapeutics*, **2018**, 49, 54-59	3.5	6
83	Numerical modeling of a linear photonic system for accurate and efficient time-domain simulations. *Photonics Research*, **2018**, 6, 560	6	8
82	Review of Polynomial Chaos-Based Methods for Uncertainty Quantification in Modern Integrated Circuits. *Electronics (Switzerland)*, **2018**, 7, 30	2.6	45
81	Parameterized macromodeling of stochastic linear systems for frequency- and time-domain variability analysis **2018**,		2

80	From Parameter Extraction, Variability Models to Yield Prediction **2018**,		2
79	A Comprehensive and Modular Stochastic Modeling Framework for the Variability-Aware Assessment of Signal Integrity in High-Speed Links. *IEEE Transactions on Electromagnetic Compatibility*, **2018**, 60, 459-467	2	11
78	Autoencoding Density-Based Anomaly Detection for Signal Integrity Applications **2018**,		1
77	Data-Efficient Bayesian Optimization with Constraints for Power Amplifier Design **2018**,		10
76	Fast and Accurate Time-Domain Simulation of Passive Photonic Systems **2018**,		1
75	Polynomial Chaos-Based Macromodeling of General Linear Multiport Systems for Time-Domain Analysis. *IEEE Transactions on Microwave Theory and Techniques*, **2017**, 65, 1422-1433	4.1	10
74	Measurement Uncertainty Propagation in Transistor Model Parameters via Polynomial Chaos Expansion. *IEEE Microwave and Wireless Components Letters*, **2017**, 27, 572-574	2.6	30
73	**2017**,		4
72	Antitussive effect of carcainium chloride in patients with chronic cough and idiopathic interstitial pneumonias: A pilot study. *Pulmonary Pharmacology and Therapeutics*, **2016**, 40, 91-4	3.5	10
71	Structural characterization and anti-inflammatory activity of two novel polysaccharides from the sea squirt, Ascidiella aspersa. *Pulmonary Pharmacology and Therapeutics*, **2016**, 40, 69-79	3.5	6
70	Lung inflammation does not affect the clearance kinetics of lipid nanocapsules following pulmonary administration. *Journal of Controlled Release*, **2016**, 235, 24-33	11.7	14
69	Ozone-Induced Hypertussive Responses in Rabbits and Guinea Pigs. *Journal of Pharmacology and Experimental Therapeutics*, **2016**, 357, 73-83	4.7	12
68	Stochastic collocation for device-level variability analysis in integrated photonics. *Photonics Research*, **2016**, 4, 93	6	20
67	Polynomial chaos-based macromodeling of multiport systems using an input–output approach. *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields*, **2015**, 28, 562-581	1	12
66	P-Rex and Vav Rac-GEFs in platelets control leukocyte recruitment to sites of inflammation. *Blood*, **2015**, 125, 1146-58	2.2	49
65	Quantification of microcirculatory blood flow: a sensitive and clinically relevant prognostic marker in murine models of sepsis. *Journal of Applied Physiology*, **2015**, 118, 344-54	3.7	19
64	The role of heparanase in pulmonary cell recruitment in response to an allergic but not non-allergic stimulus. *PLoS ONE*, **2015**, 10, e0127032	3.7	30
63	Pharmacology of novel treatments for COPD: are fixed dose combination LABA/LAMA synergistic?. *European Clinical Respiratory Journal*, **2015**, 2,	2	14

62	The effect of phytocannabinoids on airway hyper-responsiveness, airway inflammation, and cough. *Journal of Pharmacology and Experimental Therapeutics*, **2015**, 353, 169-80	4.7	17
61	Pulmonary Inflammation Impacts on CYP1A1-Mediated Respiratory Tract DNA Damage Induced by the Carcinogenic Air Pollutant Benzo[a]pyrene. *Toxicological Sciences*, **2015**, 146, 213-25	4.4	57
60	Adenosine monophosphate is elevated in the bronchoalveolar lavage fluid of mice with acute respiratory toxicity induced by nanoparticles with high surface hydrophobicity. *Nanotoxicology*, **2015**, 9, 106-15	5.3	14
59	Efficient Variability Analysis of Electromagnetic Systems Via Polynomial Chaos and Model Order Reduction. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2014**, 4, 1038-1051	1.7	32
58	Stochastic Macromodeling of Nonlinear Systems Via Polynomial Chaos Expansion and Transfer Function Trajectories. *IEEE Transactions on Microwave Theory and Techniques*, **2014**, 62, 1454-1460	4.1	20
57	Quantitative assessment of nanoparticle surface hydrophobicity and its influence on pulmonary biocompatibility. *Journal of Controlled Release*, **2014**, 183, 94-104	11.7	59
56	Fucosylated chondroitin sulfates from the body wall of the sea cucumber Holothuria forskali: conformation, selectin binding, and biological activity. *Journal of Biological Chemistry*, **2014**, 289, 28284-98	5.4	76
55	Investigating the potential role of TRPA1 in locomotion and cardiovascular control during hypertension. *Pharmacology Research and Perspectives*, **2014**, 2, e00052	3.1	27
54	Overexpression of GTP cyclohydrolase 1 feedback regulatory protein is protective in a murine model of septic shock. *Shock*, **2014**, 42, 432-9	3.4	7
53	Current and novel bronchodilators in respiratory disease. *Current Opinion in Pulmonary Medicine*, **2014**, 20, 73-86	3	36
52	The rabbit as an experimental and production animal: from genomics to proteomics. *Current Protein and Peptide Science*, **2014**, 15, 134-45	2.8	24
51	Effect of the mixed phosphodiesterase 3/4 inhibitor RPL554 on human isolated bronchial smooth muscle tone. *Journal of Pharmacology and Experimental Therapeutics*, **2013**, 346, 414-23	4.7	67
50	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. *Lancet Respiratory Medicine,the*, **2013**, 1, 714-27	35.1	98
49	Long-term effects of anti-tumour necrosis factor therapy on weight in patients with rheumatoid arthritis. *Clinical Rheumatology*, **2012**, 31, 455-61	3.9	27
48	Selective PDE inhibitors as novel treatments for respiratory diseases. *Current Opinion in Pharmacology*, **2012**, 12, 275-86	5.1	116
47	Variability Analysis of Multiport Systems Via Polynomial-Chaos Expansion. *IEEE Transactions on Microwave Theory and Techniques*, **2012**, 60, 2329-2338	4.1	63
46	Time-Domain Green's Function-Based Parametric Sensitivity Analysis of Multiconductor Transmission Lines. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2012**, 2, 1510-1517	1.7	9
45	Mycobacterium tuberculosis chaperonin 60.1 inhibits leukocyte diapedesis in a murine model of allergic lung inflammation. *American Journal of Respiratory Cell and Molecular Biology*, **2012**, 47, 245-52	5.7	16

44	PDE4-inhibitors: a novel, targeted therapy for obstructive airways disease. *Pulmonary Pharmacology and Therapeutics*, **2011**, 24, 353-60	3.5	41
43	A distinct role for transient receptor potential ankyrin 1, in addition to transient receptor potential vanilloid 1, in tumor necrosis factor-induced inflammatory hyperalgesia and Freund's complete adjuvant-induced monarthritis. *Arthritis and Rheumatism*, **2011**, 63, 819-29		125
42	Pharmacological characterization of adenosine receptors on isolated human bronchi. *American Journal of Respiratory Cell and Molecular Biology*, **2011**, 45, 1222-31	5.7	34
41	Statistical methods in research. *Methods in Molecular Biology*, **2011**, 746, 443-72	1.4	0
40	Airway irritability--a burning issue?. *Current Opinion in Pharmacology*, **2009**, 9, 530-4	5.1	3
39	Adenosine receptors and asthma. *Handbook of Experimental Pharmacology*, **2009**, 329-62	3.2	42
38	A role for MC3R in modulating lung inflammation. *Pulmonary Pharmacology and Therapeutics*, **2008**, 21, 866-73	3.5	44
37	Immunohistochemical localization of transient receptor potential vanilloid subtype 1 in the trachea of ovalbumin-sensitized Guinea pigs. *International Archives of Allergy and Immunology*, **2008**, 146 Suppl 1, 28-32	3.7	26
36	Adenosine induces a cholinergic tracheal reflex contraction in guinea pigs in vivo via an adenosine A1 receptor-dependent mechanism. *Journal of Applied Physiology*, **2008**, 105, 187-96	3.7	18
35	Lack of difference in pulmonary absorption of digoxin, a P-glycoprotein substrate, in mdr1a-deficient and mdr1a-competent mice. *Journal of Pharmacy and Pharmacology*, **2008**, 60, 1305-10	4.8	11
34	Getting to the heart of asthma: can "beta blockers" be useful to treat asthma? **2007**, 115, 360-74		31
33	Protease inhibitors in respiratory disease: focus on asthma and chronic obstructive pulmonary disease. *Expert Review of Clinical Immunology*, **2007**, 3, 365-81	5.1	5
32	PDE4 inhibitors as potential therapeutic agents in the treatment of COPD-focus on roflumilast. *International Journal of COPD*, **2007**, 2, 121-9	3	19
31	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]isoqu and RPL565 [6,7-dihydro-2-(2,6-diisopropylphenoxy)-9,10-dimethoxy-4H-pyrimido[6,1-a]isoquinolin-4-one]. *Journal of Pharmacology and Experimental Therapeutics*, **2006**, 318, 840-8	4.7	69
30	Phosphodiesterase inhibitors. *British Journal of Pharmacology*, **2006**, 147 Suppl 1, S252-7	8.6	303
29	Mechanism of adenosine-induced airways obstruction in allergic guinea pigs. *British Journal of Pharmacology*, **2006**, 147, 720-8	8.6	29
28	Beta2-agonists and bronchial hyperresponsiveness. *Clinical Reviews in Allergy and Immunology*, **2006**, 31, 143-62	12.3	11
27	Immunohistochemical localization of vanilloid receptor subtype 1 (TRPV1) in the guinea pig respiratory system. *Pulmonary Pharmacology and Therapeutics*, **2005**, 18, 187-97	3.5	63

26	Platelet P-selectin is required for pulmonary eosinophil and lymphocyte recruitment in a murine model of allergic inflammation. *Blood*, **2005**, 105, 2074-81	2.2	164
25	The potential of PDE4 inhibitors in respiratory disease. *Inflammation and Allergy: Drug Targets*, **2004**, 3, 231-6		37
24	Models used in the development of antitussive drugs. *Drug Discovery Today: Disease Models*, **2004**, 1, 297-302	1.3	8
23	The pharmacology of cough. *Trends in Pharmacological Sciences*, **2004**, 25, 569-76	13.2	68
22	Platelets are necessary for airway wall remodeling in a murine model of chronic allergic inflammation. *Blood*, **2004**, 103, 639-47	2.2	120
21	Theophylline and PDE4 inhibitors in asthma. *Current Opinion in Pulmonary Medicine*, **2003**, 9, 57-64	3	22
20	Platelets are essential for leukocyte recruitment in allergic inflammation. *Journal of Allergy and Clinical Immunology*, **2003**, 112, 109-18	11.5	173
19	Phosphodiesterase-4 inhibitors in the treatment of inflammatory lung disease. *Drugs*, **2003**, 63, 2575-94	12.1	100
18	Pharmacology of a new cyclic nucleotide phosphodiesterase type 4 inhibitor, V11294. *Pulmonary Pharmacology and Therapeutics*, **2003**, 16, 97-104	3.5	14
17	Pharmacokinetic and pharmacodynamic profile following oral administration of the phosphodiesterase (PDE)4 inhibitor V11294A in healthy volunteers. *British Journal of Clinical Pharmacology*, **2002**, 54, 478-84	3.8	15
16	Characterization of the anandamide induced depolarization of guinea-pig isolated vagus nerve. *British Journal of Pharmacology*, **2002**, 137, 39-48	8.6	43
15	Bronchial hyperresponsiveness induced by chronic treatment with albuterol: Role of sensory nerves. *Journal of Allergy and Clinical Immunology*, **2002**, 110, 388-94	11.5	35
14	Pharmacology of airway irritability. *Current Opinion in Pharmacology*, **2002**, 2, 264-72	5.1	22
13	Airway nerves: neurotransmitter release. *Current Opinion in Pharmacology*, **2002**, 2, 283-5	5.1	4
12	Asthma -- a need for a rethink?. *Trends in Pharmacological Sciences*, **2002**, 23, 311-5	13.2	28
11	What have transgenic and knockout animals taught us about respiratory disease?. *Respiratory Research*, **2000**, 1, 82-6	7.3	3
10	Modulation of sensory nerve function in the airways. *Trends in Pharmacological Sciences*, **1998**, 19, 460-6	13.2	35
9	The effect duration of selective phosphodiesterase inhibitors in the guinea pig. *Life Sciences*, **1998**, 62, 953-65	6.8	12

8	A comparison of sensory nerve function in human, guinea-pig, rabbit and marmoset airways. *Life Sciences*, **1998**, 63, 1629-42	6.8	23
7	Beta-adrenoceptor desensitization in guinea-pig isolated trachea. *European Journal of Pharmacology*, **1988**, 157, 135-45	5.3	25
6	Autoradiographic localisation of ascorbic acid-dependent binding sites for [125I]iodocyanopindolol in guinea-pig trachea. *European Journal of Pharmacology*, **1986**, 124, 179-82	5.3	8
5	Influence of the epithelium on responsiveness of guinea-pig isolated trachea to contractile and relaxant agonists. *British Journal of Pharmacology*, **1986**, 87, 5-14	8.6	143
4	Classification of beta-adrenoceptors in human isolated bronchus. *British Journal of Pharmacology*, **1984**, 81, 611-5	8.6	39
3	Effect of hypothermia on beta 1-adrenoceptor-mediated relaxation of pig bronchus. *British Journal of Pharmacology*, **1983**, 80, 699-702	8.6	7
2	Pharmacology of Peripherally Acting Antitussives237-245		1
1	Adaptive sampling with automatic stopping for feasible region identification in engineering design. *Engineering With Computers*,1	4.5	