

Silvia M Arribas

List of Publications by Year in descending order

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85
papers

2,488
citations

159525

30
h-index

243529

44
g-index

86
all docs

86
docs citations

86
times ranked

2971
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic fibres and vascular structure in hypertension. , 2006, 111, 771-791.		208
2	A Review of Bioactive Factors in Human Breastmilk: A Focus on Prematurity. <i>Nutrients</i> , 2019, 11, 1307.	1.7	141
3	Role of Elastin in Spontaneously Hypertensive Rat Small Mesenteric Artery Remodelling. <i>Journal of Physiology</i> , 2003, 552, 185-195.	1.3	122
4	Implication of Oxidative Stress in Fetal Programming of Cardiovascular Disease. <i>Frontiers in Physiology</i> , 2018, 9, 602.	1.3	111
5	Role of extracellular matrix in vascular remodeling of hypertension. <i>Current Opinion in Nephrology and Hypertension</i> , 2010, 19, 187-194.	1.0	81
6	New aspects of vascular remodelling: the involvement of all vascular cell types. <i>Experimental Physiology</i> , 2005, 90, 469-475.	0.9	77
7	Imbalance between Pro and Anti-Oxidant Mechanisms in Perivascular Adipose Tissue Aggravates Long-Term High-Fat Diet-Derived Endothelial Dysfunction. <i>PLoS ONE</i> , 2014, 9, e95312.	1.1	77
8	Fenestrations of the Carotid Internal Elastic Lamina and Structural Adaptation in Stroke-Prone Spontaneously Hypertensive Rats. <i>Hypertension</i> , 2001, 37, 1101-1107.	1.3	73
9	Cellular Aspects of Vascular Remodeling in Hypertension Revealed by Confocal Microscopy. <i>Hypertension</i> , 1997, 30, 1455-1464.	1.3	72
10	Alterations in structure and mechanics of resistance arteries from ouabain-induced hypertensive rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H193-H201.	1.5	59
11	Estimation of scavenging capacity of melatonin and other antioxidants: Contribution and evaluation in germinated seeds. <i>Food Chemistry</i> , 2015, 170, 203-211.	4.2	55
12	Prediction of fermentation index of cocoa beans (<i>Theobroma cacao</i> L.) based on color measurement and artificial neural networks. <i>Talanta</i> , 2016, 161, 31-39.	2.9	48
13	Influence of elastin on rat small artery mechanical properties. <i>Experimental Physiology</i> , 2005, 90, 463-468.	0.9	47
14	Fetal undernutrition is associated with perinatal sex-dependent alterations in oxidative status. <i>Journal of Nutritional Biochemistry</i> , 2015, 26, 1650-1659.	1.9	47
15	Endothelial dysfunction in spontaneously hypertensive rats: focus on methodological aspects. <i>Journal of Hypertension</i> , 2009, 27, S27-S31.	0.3	46
16	Maternal plasma antioxidant status in the first trimester of pregnancy and development of obstetric complications. <i>Placenta</i> , 2016, 47, 37-45.	0.7	44
17	Heightened aberrant deposition of hard-wearing elastin in conduit arteries of prehypertensive SHR is associated with increased stiffness and inward remodeling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H2299-H2307.	1.5	42
18	Confocal Microscopic Characterization of a Lesion in a Cerebral Vessel of the Stroke-Prone Spontaneously Hypertensive Rat. <i>Stroke</i> , 1996, 27, 1118-1123.	1.0	42

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19	Genes Encoding Atrial and Brain Natriuretic Peptides as Candidates for Sensitivity to Brain Ischemia in Stroke-Prone Hypertensive Rats. <i>Hypertension</i> , 1999, 33, 290-297.	1.3	41
20	Postnatal alterations in elastic fiber organization precede resistance artery narrowing in SHR. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H804-H812.	1.5	39
21	Long term effects of fetal undernutrition on rat heart. Role of hypertension and oxidative stress. <i>PLoS ONE</i> , 2017, 12, e0171544.	1.1	38
22	Cellular changes induced by chronic nitric oxide inhibition in intact rat basilar arteries revealed by confocal microscopy. <i>Journal of Hypertension</i> , 1997, 15, 1685-1693.	0.3	37
23	Short-term treatment of spontaneously hypertensive rats with liver growth factor reduces carotid artery fibrosis, improves vascular function, and lowers blood pressure. <i>Cardiovascular Research</i> , 2006, 69, 764-771.	1.8	36
24	Teas and herbal infusions as sources of melatonin and other bioactive non-nutrient components. <i>LWT - Food Science and Technology</i> , 2018, 89, 65-73.	2.5	36
25	Association between Maternal Postpartum Depression, Stress, Optimism, and Breastfeeding Pattern in the First Six Months. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 7153.	1.2	36
26	Imaging the vascular wall using confocal microscopy. <i>Journal of Physiology</i> , 2007, 584, 5-9.	1.3	35
27	A plasma oxidative stress global index in early stages of chronic venous insufficiency. <i>Journal of Vascular Surgery</i> , 2013, 57, 205-213.	0.6	34
28	Mechanical Strength of the Isolated Carotid Artery in SHR. <i>Hypertension</i> , 2001, 38, 1167-1171.	1.3	32
29	Intake of bean sprouts influences melatonin and antioxidant capacity biomarker levels in rats. <i>Food and Function</i> , 2016, 7, 1438-1445.	2.1	31
30	Rapid high-throughput assay to assess scavenging capacity index using DPPH. <i>Food Chemistry</i> , 2013, 141, 788-794.	4.2	30
31	Nitric Oxide and Superoxide Anion Balance in Rats Exposed to Chronic and Long Term Intermittent Hypoxia. <i>BioMed Research International</i> , 2014, 2014, 1-10.	0.9	30
32	Bioavailability of Melatonin from Lentil Sprouts and Its Role in the Plasmatic Antioxidant Status in Rats. <i>Foods</i> , 2020, 9, 330.	1.9	29
33	The Antioxidant Activity and Thermal Stability of Lemon Verbena (<i>Aloysia triphylla</i>) Infusion. <i>Journal of Medicinal Food</i> , 2011, 14, 517-527.	0.8	27
34	Hypertension increases middle cerebral artery resting tone in spontaneously hypertensive rats: role of tonic vasoactive factor availability. <i>Clinical Science</i> , 2008, 114, 651-659.	1.8	26
35	$\hat{1}\pm$ 1 -Adrenoceptor vasoconstriction in the tail artery during ageing. <i>British Journal of Pharmacology</i> , 1997, 121, 1017-1023.	2.7	25
36	Male fetal sex is associated with low maternal plasma anti-inflammatory cytokine profile in the first trimester of healthy pregnancies. <i>Cytokine</i> , 2020, 136, 155290.	1.4	25

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37	Functional Reduction and Associated Cellular Rearrangement in SHRSP Rat Basilar Arteries Are Affected by Salt Load and Calcium Antagonist Treatment. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999, 19, 517-527.	2.4	23
38	Liver growth factor treatment restores cell-extracellular matrix balance in resistance arteries and improves left ventricular hypertrophy in SHR. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H1153-H1165.	1.5	23
39	A simple dot-blot "Sirius red"-based assay for collagen quantification. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6863-6871.	1.9	21
40	Gene Expression and MicroRNA Expression Analysis in Small Arteries of Spontaneously Hypertensive Rats. Evidence for ER Stress. <i>PLoS ONE</i> , 2015, 10, e0137027.	1.1	21
41	A novel high-throughput image based rapid Folin-Ciocalteu assay for assessment of reducing capacity in foods. <i>Talanta</i> , 2016, 152, 82-89.	2.9	21
42	Arterial stiffness is associated with adipokine dysregulation in non-hypertensive obese mice. <i>Vascular Pharmacology</i> , 2016, 77, 38-47.	1.0	21
43	Modulatory role of the adventitia on noradrenaline and angiotensin II responses Role of endothelium and AT2 receptors. <i>Cardiovascular Research</i> , 2005, 65, 478-486.	1.8	20
44	Antioxidant activity of liver growth factor, a bilirubin covalently bound to albumin. <i>Free Radical Biology and Medicine</i> , 2009, 46, 656-662.	1.3	20
45	Impairment of Vasodilator Function in Basilar Arteries From Aged Rats. <i>Stroke</i> , 1997, 28, 1812-1820.	1.0	20
46	Influence of Maternal Age and Gestational Age on Breast Milk Antioxidants During the First Month of Lactation. <i>Nutrients</i> , 2020, 12, 2569.	1.7	19
47	Liver growth factor treatment reverses vascular and plasmatic oxidative stress in spontaneously hypertensive rats. <i>Journal of Hypertension</i> , 2012, 30, 1185-1194.	0.3	17
48	Heterogeneity in Arterial Remodeling among Sublines of Spontaneously Hypertensive Rats. <i>PLoS ONE</i> , 2014, 9, e107998.	1.1	17
49	Role of fetal nutrient restriction and postnatal catch-up growth on structural and mechanical alterations of rat aorta. <i>Journal of Physiology</i> , 2018, 596, 5791-5806.	1.3	16
50	Sex Differences in Placental Protein Expression and Efficiency in a Rat Model of Fetal Programming Induced by Maternal Undernutrition. <i>International Journal of Molecular Sciences</i> , 2021, 22, 237.	1.8	15
51	[15] Measurements of vascular remodeling by confocal microscopy. <i>Methods in Enzymology</i> , 1999, 307, 246-273.	0.4	14
52	Multidimensional Approach to Assess Nutrition and Lifestyle in Breastfeeding Women during the First Month of Lactation. <i>Nutrients</i> , 2021, 13, 1766.	1.7	13
53	Vasoactive Properties of a Cocoa Shell Extract: Mechanism of Action and Effect on Endothelial Dysfunction in Aged Rats. <i>Antioxidants</i> , 2022, 11, 429.	2.2	13
54	Enhanced survival of vascular smooth muscle cells accounts for heightened elastin deposition in arteries of neonatal spontaneously hypertensive rats. <i>Experimental Physiology</i> , 2010, 95, 550-560.	0.9	12

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55	Endothelial and Neuronal Nitric Oxide Activate Distinct Pathways on Sympathetic Neurotransmission in Rat Tail and Mesenteric Arteries. <i>PLoS ONE</i> , 2015, 10, e0129224.	1.1	12
56	Adventitial Alterations Are the Main Features in Pulmonary Artery Remodeling due to Long-Term Chronic Intermittent Hypobaric Hypoxia in Rats. <i>BioMed Research International</i> , 2015, 2015, 1-11.	0.9	11
57	Maternal Psychological and Biological Factors Associated to Gestational Complications. <i>Journal of Personalized Medicine</i> , 2021, 11, 183.	1.1	11
58	Maternal Antioxidant Status in Early Pregnancy and Development of Fetal Complications in Twin Pregnancies: A Pilot Study. <i>Antioxidants</i> , 2020, 9, 269.	2.2	10
59	Maternal Resources, Pregnancy Concerns, and Biological Factors Associated to Birth Weight and Psychological Health. <i>Journal of Clinical Medicine</i> , 2021, 10, 695.	1.0	10
60	Critical Evaluation of Coffee Pulp as an Innovative Antioxidant Dietary Fiber Ingredient: Nutritional Value, Functional Properties, and Acute and Sub-Chronic Toxicity. <i>Proceedings (mdpi)</i> , 2021, 70, 65.	0.2	10
61	Healthy Habits and Emotional Balance in Women during the Postpartum Period: Differences between Term and Preterm Delivery. <i>Children</i> , 2021, 8, 937.	0.6	10
62	First trimester elevations of hematocrit, lipid peroxidation and nitrates in women with twin pregnancies who develop preeclampsia. <i>Pregnancy Hypertension</i> , 2020, 22, 132-135.	0.6	9
63	Nox2 Upregulation and p38 $\hat{\pm}$ MAPK Activation in Right Ventricular Hypertrophy of Rats Exposed to Long-Term Chronic Intermittent Hypobaric Hypoxia. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8576.	1.8	9
64	Development and Validation of a Questionnaire to Assess Adherence to the Healthy Food Pyramid in Spanish Adults. <i>Nutrients</i> , 2020, 12, 1656.	1.7	9
65	Effects of Arachidonic and Docosohexahenoic Acid Supplementation during Gestation in Rats. Implication of Placental Oxidative Stress. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3863.	1.8	8
66	Insights into sympathetic nervous system and GPCR interplay in fetal programming of hypertension: a bridge for new pharmacological strategies. <i>Drug Discovery Today</i> , 2020, 25, 739-747.	3.2	8
67	Assessment of Adherence to the Healthy Food Pyramid in Pregnant and Lactating Women. <i>Nutrients</i> , 2021, 13, 2372.	1.7	8
68	A novel pyrogallol red-based assay to assess catalase activity: Optimization by response surface methodology. <i>Talanta</i> , 2017, 166, 349-356.	2.9	7
69	Fetal Undernutrition Induces Resistance Artery Remodeling and Stiffness in Male and Female Rats Independent of Hypertension. <i>Biomedicines</i> , 2020, 8, 424.	1.4	7
70	Confocal myography for the study of hypertensive vascular remodelling. <i>Clinical Hemorheology and Microcirculation</i> , 2007, 37, 205-10.	0.9	7
71	Plasma Oxidative Status in Preterm Infants Receiving LCPUFA Supplementation: A Pilot Study. <i>Nutrients</i> , 2020, 12, 122.	1.7	6
72	Validation of Cocoa Shell as a Novel Antioxidant Dietary Fiber Food Ingredient: Nutritional Value, Functional Properties, and Safety. <i>Current Developments in Nutrition</i> , 2020, 4, nzaa052_042.	0.1	6

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73	Younger Age in Adolescent Pregnancies Is Associated with Higher Risk of Adverse Outcomes. International Journal of Environmental Research and Public Health, 2021, 18, 8514.	1.2	5
74	AMPK and the Challenge of Treating Hypoxic Pulmonary Hypertension. International Journal of Molecular Sciences, 2022, 23, 6205.	1.8	5
75	Implication of RAS in Postnatal Cardiac Remodeling, Fibrosis and Dysfunction Induced by Fetal Undernutrition. Pathophysiology, 2021, 28, 273-290.	1.0	4
76	Endothelium in Diseased States. BioMed Research International, 2014, 2014, 1-2.	0.9	3
77	Fetal Undernutrition and Oxidative Stress: Influence of Sex and Gender. , 2017, , 1-19.		2
78	Bioaccessibility of Phenolic Compounds from Cocoa Shell Subjected to In Vitro Digestion and Its Antioxidant Activity in Intestinal and Hepatic Cells. Medical Sciences Forum, 2020, 2, .	0.5	2
79	Evaluation of the Hypolipidemic Properties of Cocoa Shell after Simulated Digestion Using In Vitro Techniques and a Cell Culture Model of Non-Alcoholic Fatty Liver Disease. Proceedings (mdpi), 2021, 70, 58.	0.2	2
80	Higher risk of late-onset sepsis in very low birth weight male preterm infants. Medicina Universitaria, 2021, 20, .	0.1	1
81	Antioxidant Foods and Cardiometabolic Health. Antioxidants, 2022, 11, 746.	2.2	1
82	Fetal Undernutrition and Oxidative Stress: Influence of Sex and Gender. , 2019, , 1395-1413.		0
83	Hypolipidemic Properties of Cocoa and Coffee By-Products after Simulated Gastrointestinal Digestion: A Comparative Approach. Biology and Life Sciences Forum, 2021, 7, 1.	0.6	0
84	Role of the Phytochemicals from the Cocoa Shell on the Prevention of Metabolic Syndrome by an Integrated Network Pharmacology Analysis. Biology and Life Sciences Forum, 2021, 7, .	0.6	0
85	Gastrointestinal Digestion and Absorption of Antioxidant Phenolic Compounds and Caffeine from the Coffee Pulp under Simulated Conditions. , 2022, 12, .		0