

# Alex Sander da Rosa Araujo

## List of Publications by Year in descending order

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116  
papers

2,527  
citations

218677

26  
h-index

276875

41  
g-index

117  
all docs

117  
docs citations

117  
times ranked

3491  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulforaphane Induces Glioprotection After LPS Challenge. Cellular and Molecular Neurobiology, 2022, 42, 829-846.	3.3	9
2	Sulforaphane Effects on Cardiac Function and Calcium-Handling-Related Proteins in 2 Experimental Models of Heart Disease: Ischemia-Reperfusion and Infarction. Journal of Cardiovascular Pharmacology, 2022, 79, 325-334.	1.9	4
3	Antioxidant system disturbances and mitochondrial dysfunction induced by 3-methylglutaric acid in rat heart are prevented by bezafibrate. European Journal of Pharmacology, 2022, 924, 174950.	3.5	4
4	Gestational purple grape juice consumption does not change fetal ductus arteriosus constriction in Wistar rats. Birth Defects Research, 2022, , .	1.5	0
5	The progression of pulmonary arterial hypertension induced by monocrotaline is characterized by lung nitrosative and oxidative stress, and impaired pulmonary artery reactivity. European Journal of Pharmacology, 2021, 891, 173699.	3.5	19
6	Liraglutide improves lipid and carbohydrate metabolism of ovariectomized rats. Molecular and Cellular Endocrinology, 2021, 524, 111158.	3.2	9
7	Pulmonary arterial hypertension induces the release of circulating extracellular vesicles with oxidative content and alters redox and mitochondrial homeostasis in the brains of rats. Hypertension Research, 2021, 44, 918-931.	2.7	10
8	Blueberry extract improves redox balance and functional parameters in the right ventricle from rats with pulmonary arterial hypertension. European Journal of Nutrition, 2021, , 1.	3.9	2
9	Thioredoxin system activation is associated with the progression of experimental pulmonary arterial hypertension. Life Sciences, 2021, 284, 119917.	4.3	4
10	Oral delivery of ambrisentan-loaded lipid-core nanocapsules as a novel approach for the treatment of pulmonary arterial hypertension. International Journal of Pharmaceutics, 2021, 610, 121181.	5.2	4
11	The brief methylprednisolone administration is crucial to mitigate cardiac dysfunction after myocardial infarction. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20210297.	0.8	1
12	Blueberry extract decreases oxidative stress and improves functional parameters in lungs from rats with pulmonary arterial hypertension. Nutrition, 2020, 70, 110579.	2.4	27
13	Role of inflammation, oxidative stress, and autonomic nervous system activation during the development of right and left cardiac remodeling in experimental pulmonary arterial hypertension. Molecular and Cellular Biochemistry, 2020, 464, 93-109.	3.1	22
14	Thyroid hormone treatment improved the response to maximum exercise test and preserved the ventricular geometry in myocardial infarcted rats. Experimental Physiology, 2020, 105, 1561-1570.	2.0	0
15	Development and validation of a specific-stability indicating liquid chromatography method for quantitative analysis of pterostilbene: application in food and pharmaceutical products. Analytical Methods, 2020, 12, 4310-4318.	2.7	7
16	Cardioprotective doses of thyroid hormones improve NO bioavailability in erythrocytes and increase HIF-1 $\alpha$ expression in the heart of infarcted rats. Archives of Physiology and Biochemistry, 2020, , 1-8.	2.1	3
17	Pterostilbene improves cardiac function in a rat model of right heart failure through modulation of calcium handling proteins and oxidative stress. Applied Physiology, Nutrition and Metabolism, 2020, 45, 987-995.	1.9	11
18	Effects of Carvedilol and Thyroid Hormones Co-administration on Apoptotic and Survival Proteins in the Heart After Acute Myocardial Infarction. Journal of Cardiovascular Pharmacology, 2020, 76, 698-707.	1.9	3

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19	Bucindolol Modulates Cardiac Remodeling by Attenuating Oxidative Stress in H9c2 Cardiac Cells Exposed to Norepinephrine. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-11.	4.0	6
20	An early stage in T4-induced hyperthyroidism is related to systemic oxidative stress but does not influence the pentose cycle in erythrocytes and systemic inflammatory status. <i>Archives of Endocrinology and Metabolism</i> , 2019, 63, 228-234.	0.6	3
21	Carvedilol and thyroid hormones co-administration mitigates oxidative stress and improves cardiac function after acute myocardial infarction. <i>European Journal of Pharmacology</i> , 2019, 854, 159-166.	3.5	19
22	Acetyl-L-carnitine as a putative candidate for the treatment of stress-related psychiatric disorders: Novel evidence from a zebrafish model. <i>Neuropharmacology</i> , 2019, 150, 145-152.	4.1	20
23	Withdrawal effects following repeated ethanol exposure are prevented by N-acetylcysteine in zebrafish. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2019, 93, 161-170.	4.8	28
24	DHEA Treatment Effects on Redox Environment in Skeletal Muscle of Young and Aged Healthy Rats. <i>Current Aging Science</i> , 2019, 11, 126-132.	1.2	1
25	Innate immune response in the pathogenesis of heart failure in survivors of myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H435-H445.	3.2	26
26	Bucindolol attenuates the vascular remodeling of pulmonary arteries by modulating the expression of the endothelin-1 A receptor in rats with pulmonary arterial hypertension. <i>Biomedicine and Pharmacotherapy</i> , 2018, 99, 704-714.	5.6	6
27	Exercise training versus T3 and T4 hormones treatment: The differential benefits of thyroid hormones on the parasympathetic drive of infarcted rats. <i>Life Sciences</i> , 2018, 196, 93-101.	4.3	4
28	Neonatal hyperglycemia induces cell death in the rat brain. <i>Metabolic Brain Disease</i> , 2018, 33, 333-342.	2.9	8
29	Trapidil improves hemodynamic, echocardiographic and redox state parameters of right ventricle in monocrotaline-induced pulmonary arterial hypertension model. <i>Biomedicine and Pharmacotherapy</i> , 2018, 103, 182-190.	5.6	15
30	Thyroid hormones decrease the proinflammatory TLR4/NF- $\kappa$ B pathway and improve functional parameters of the left ventricle of infarcted rats. <i>Molecular and Cellular Endocrinology</i> , 2018, 461, 132-142.	3.2	16
31	Circulating extracellular vesicles in the aging process: impact of aerobic exercise. <i>Molecular and Cellular Biochemistry</i> , 2018, 440, 115-125.	3.1	59
32	Behavioral and Biochemical Effects of N-Acetylcysteine in Zebrafish Acutely Exposed to Ethanol. <i>Neurochemical Research</i> , 2018, 43, 458-464.	3.3	17
33	Copaiba Oil Attenuates Right Ventricular Remodeling by Decreasing Myocardial Apoptotic Signaling in Monocrotaline-Induced Rats. <i>Journal of Cardiovascular Pharmacology</i> , 2018, 72, 214-221.	1.9	11
34	Decreased PGC1- $\alpha$ levels and increased apoptotic protein signaling are associated with the maladaptive cardiac hypertrophy in hyperthyroidism. <i>Journal of Biosciences</i> , 2018, 43, 887-895.	1.1	7
35	Stilbenoid pterostilbene complexed with cyclodextrin preserves left ventricular function after myocardial infarction in rats: possible involvement of thiol proteins and modulation of phosphorylated GSK-3 $\beta$ . <i>Free Radical Research</i> , 2018, 52, 988-999.	3.3	24
36	Sulforaphane effects on oxidative stress parameters in culture of adult cardiomyocytes. <i>Biomedicine and Pharmacotherapy</i> , 2018, 104, 165-171.	5.6	16

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37	Effect of pterostilbene complexed with cyclodextrin on rat liver: potential reduction of oxidative damage and modulation redox-sensitive proteins. Medicinal Chemistry Research, 2018, 27, 2265-2278.	2.4	8
38	Effects of ovariectomy on antioxidant defence systems in the right ventricle of female rats with pulmonary arterial hypertension induced by monocrotaline. Canadian Journal of Physiology and Pharmacology, 2018, 96, 295-303.	1.4	4
39	Role of Redox Homeostasis and Inflammation in the Pathogenesis of Pulmonary Arterial Hypertension. Current Medicinal Chemistry, 2018, 25, 1340-1351.	2.4	23
40	Effects of aerobic exercise training on metabolism of nitric oxide and endothelin-1 in lung parenchyma of rats with pulmonary arterial hypertension. Molecular and Cellular Biochemistry, 2017, 429, 73-89.	3.1	23
41	Secoisolariciresinol diglucoside attenuates cardiac hypertrophy and oxidative stress in monocrotaline-induced right heart dysfunction. Molecular and Cellular Biochemistry, 2017, 432, 33-39.	3.1	16
42	Bucindolol improves right ventricle function in rats with pulmonary arterial hypertension through the reversal of autonomic imbalance. European Journal of Pharmacology, 2017, 798, 57-65.	3.5	10
43	Long-term T3 and T4 treatment as an alternative to aerobic exercise training in improving cardiac function post-myocardial infarction. Biomedicine and Pharmacotherapy, 2017, 95, 965-973.	5.6	15
44	Pterostilbene reduces oxidative stress, prevents hypertrophy and preserves systolic function of right ventricle in <i>cor pulmonale</i> model. British Journal of Pharmacology, 2017, 174, 3302-3314.	5.4	35
45	Effect of Free and Nanoencapsulated Copaiba Oil on Monocrotaline-induced Pulmonary Arterial Hypertension. Journal of Cardiovascular Pharmacology, 2017, 69, 79-85.	1.9	15
46	Exercise training contributes to H2O2/VEGF signaling in the lung of rats with monocrotaline-induced pulmonary hypertension. Vascular Pharmacology, 2016, 87, 49-59.	2.1	22
47	Oxidative Stress Influence in the Development of Pulmonary Arterial Hypertension. , 2016, , 213-226.		0
48	Effects of thyroid hormones on aortic tissue after myocardial infarction in rats. European Journal of Pharmacology, 2016, 791, 788-793.	3.5	8
49	Resistance or aerobic training decreases blood pressure and improves cardiovascular autonomic control and oxidative stress in hypertensive menopausal rats. Journal of Applied Physiology, 2016, 121, 1032-1038.	2.5	31
50	Sulforaphane effects on postinfarction cardiac remodeling in rats: modulation of redox-sensitive prosurvival and proapoptotic proteins. Journal of Nutritional Biochemistry, 2016, 34, 106-117.	4.2	25
51	Thyroid hormones effects on oxidative stress and cardiac remodeling in the right ventricle of infarcted rats. Life Sciences, 2016, 146, 109-116.	4.3	10
52	Effects of sleep restriction during pregnancy on the mother and fetuses in rats. Physiology and Behavior, 2016, 155, 66-76.	2.1	22
53	Systemic administration of vitamins C and E attenuates nociception induced by chronic constriction injury of the sciatic nerve in rats. Brain Research Bulletin, 2016, 121, 169-177.	3.0	32
54	Thyroid hormones improve cardiac function and decrease expression of pro-apoptotic proteins in the heart of rats 14Âdays after infarction. Apoptosis: an International Journal on Programmed Cell Death, 2016, 21, 184-194.	4.9	29

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55	Sulforaphane improves oxidative status without attenuating the inflammatory response or cardiac impairment induced by ischemiaâ€“reperfusion in rats. Canadian Journal of Physiology and Pharmacology, 2016, 94, 508-516.	1.4	7
56	Aerobic Exercise Promotes a Decrease in Right Ventricle Apoptotic Proteins in Experimental Cor Pulmonale. Journal of Cardiovascular Pharmacology, 2015, 66, 246-253.	1.9	19
57	Effect of Deep Intramuscular Stimulation and Transcranial Magnetic Stimulation on Neurophysiological Biomarkers in Chronic Myofascial Pain Syndrome. Pain Medicine, 2015, 17, n/a-n/a.	1.9	16
58	Modulation of apoptosis by sulforaphane is associated with PGC-1 $\beta$ stimulation and decreased oxidative stress in cardiac myoblasts. Molecular and Cellular Biochemistry, 2015, 401, 61-70.	3.1	28
59	T3 and T4 decrease ROS levels and increase endothelial nitric oxide synthase expression in the myocardium of infarcted rats. Molecular and Cellular Biochemistry, 2015, 408, 235-243.	3.1	28
60	Secoisolariciresinol Diglucoside Abrogates Oxidative Stress-Induced Damage in Cardiac Iron Overload Condition. PLoS ONE, 2015, 10, e0122852.	2.5	17
61	Catalase Influence in the Regulation of Coronary Resistance by Estrogen: Joint Action of Nitric Oxide and Hydrogen Peroxide. Oxidative Medicine and Cellular Longevity, 2014, 2014, 1-6.	4.0	5
62	Efficacy of a Low Dose of Estrogen on Antioxidant Defenses and Heart Rate Variability. Oxidative Medicine and Cellular Longevity, 2014, 2014, 1-7.	4.0	28
63	Effects of acute and chronic administration of methylprednisolone on oxidative stress in rat lungs. Jornal Brasileiro De Pneumologia, 2014, 40, 238-243.	0.7	13
64	Diabetic hyperglycemia attenuates sympathetic dysfunction and oxidative stress after myocardial infarction in rats. Cardiovascular Diabetology, 2014, 13, 131.	6.8	20
65	Low-dose Estrogen Is as Effective as High-dose Treatment in Rats With Postmenopausal Hypertension. Journal of Cardiovascular Pharmacology, 2014, 63, 144-151.	1.9	13
66	Oxidative Stress and Antioxidant Strategies in Cardiovascular Disease. Oxidative Medicine and Cellular Longevity, 2014, 2014, 1-2.	4.0	15
67	Atorvastatin administered before myocardial infarction in rats improves contractility irrespective of metabolic changes. Clinical and Experimental Pharmacology and Physiology, 2014, 41, 986-994.	1.9	5
68	Effect of N-acetylcysteine on the spinal-cord glutathione system and nitric-oxide metabolites in rats with neuropathic pain. Neuroscience Letters, 2014, 569, 163-168.	2.1	25
69	Cardioprotective effects of thyroid hormones in a rat model of myocardial infarction are associated with oxidative stress reduction. Molecular and Cellular Endocrinology, 2014, 391, 22-29.	3.2	41
70	Sciatic Nerve Transection Modulates Oxidative Parameters in Spinal and Supraspinal Regions. Neurochemical Research, 2013, 38, 935-942.	3.3	23
71	Effects of exercise on monocrotaline-induced changes in right heart function and pulmonary artery remodeling in rats. Canadian Journal of Physiology and Pharmacology, 2013, 91, 38-44.	1.4	51
72	Antioxidant characterization of soy derived products in vitro and the effect of a soy diet on peripheral markers of oxidative stress in a heart disease model. Canadian Journal of Physiology and Pharmacology, 2012, 90, 1095-1103.	1.4	14

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73	Effects of Purple Grape Juice in the Redox-sensitive Modulation of Right Ventricular Remodeling in a Pulmonary Arterial Hypertension Model. <i>Journal of Cardiovascular Pharmacology</i> , 2012, 60, 15-22.	1.9	15
74	Influence of ovariectomy on cardiac oxidative stress in a renovascular hypertension model. <i>Canadian Journal of Physiology and Pharmacology</i> , 2012, 90, 1229-1234.	1.4	12
75	Effect of High-Velocity, Low-Amplitude Treatment on Superoxide Dismutase and Glutathione Peroxidase Activities in Erythrocytes From Men With Neck Pain. <i>Journal of Manipulative and Physiological Therapeutics</i> , 2012, 35, 295-300.	0.9	4
76	Time course of hydrogen peroxide–thioredoxin balance and its influence on the intracellular signalling in myocardial infarction. <i>Experimental Physiology</i> , 2012, 97, 741-749.	2.0	23
77	Assessment of Oxidative Parameters in Rat Spinal Cord After Chronic Constriction of the Sciatic Nerve. <i>Neurochemical Research</i> , 2012, 37, 1952-1958.	3.3	21
78	Reactive oxygen and nitrogen species balance in the determination of thyroid hormones-induced cardiac hypertrophy mediated by renin–angiotensin system. <i>Molecular and Cellular Endocrinology</i> , 2011, 333, 78-84.	3.2	30
79	Dehydroepiandrosterone improves hepatic antioxidant reserve and stimulates Akt signaling in young and old rats. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2011, 127, 331-336.	2.5	15
80	The effect of dehydroepiandrosterone (DHEA) on renal function and metabolism in diabetic rats. <i>Steroids</i> , 2011, 76, 564-570.	1.8	18
81	Association of the time course of pulmonary arterial hypertension with changes in oxidative stress in the left ventricle. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2011, 38, 804-810.	1.9	12
82	Thyroid hormone–induced haemoglobin changes and antioxidant enzymes response in erythrocytes. <i>Cell Biochemistry and Function</i> , 2011, 29, 408-413.	2.9	20
83	Influence of estrogen on pulmonary arterial hypertension: role of oxidative stress. <i>Cell Biochemistry and Function</i> , 2011, 29, 543-548.	2.9	10
84	Redox status and pro-survival/pro-apoptotic protein expression in the early cardiac hypertrophy induced by experimental hyperthyroidism. <i>Cell Biochemistry and Function</i> , 2011, 29, 617-623.	2.9	13
85	Redox Regulation of Myocardial Erk 1/2 Phosphorylation in Experimental Hyperthyroidism: Role of Thioredoxin-Peroxiredoxin System. <i>Journal of Cardiovascular Pharmacology</i> , 2010, 56, 513-517.	1.9	18
86	Modulation of Monocrotaline-Induced Cor Pulmonale by Grape Juice. <i>Journal of Cardiovascular Pharmacology</i> , 2010, 55, 89-95.	1.9	24
87	Redox-sensitive prosurvival and proapoptotic protein expression in the myocardial remodeling post-infarction in rats. <i>Molecular and Cellular Biochemistry</i> , 2010, 341, 1-8.	3.1	36
88	Redox imbalance influence in the myocardial Akt activation in aged rats treated with DHEA. <i>Experimental Gerontology</i> , 2010, 45, 957-963.	2.8	23
89	Increased resistance to hydrogen peroxide–induced cardiac contracture is associated with decreased myocardial oxidative stress in hypothyroid rats. <i>Cell Biochemistry and Function</i> , 2010, 28, 38-44.	2.9	17
90	Age-related effects of DHEA on peripheral markers of oxidative stress. <i>Cell Biochemistry and Function</i> , 2010, 28, 52-57.	2.9	26

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91	The effect of long-term DHEA treatment on glucose metabolism, hydrogen peroxide and thioresoxin levels in the skeletal muscle of diabetic rats. Journal of Steroid Biochemistry and Molecular Biology, 2010, 120, 38-44.	2.5	14
92	Effects of High-Velocity, Low-Amplitude Manipulation on Catalase Activity in Men With Neck Pain. Journal of Manipulative and Physiological Therapeutics, 2010, 33, 300-307.	0.9	9
93	Bone marrow derived cells decrease inflammation but not oxidative stress in an experimental model of acute myocardial infarction. Life Sciences, 2010, 87, 699-706.	4.3	43
94	Effect of inÂvitro exposure of human serum to 3-butyl-1-phenyl-2-(phenyltelluro)oct-en-1-one on oxidative stress. Molecular and Cellular Biochemistry, 2009, 332, 127-134.	3.1	7
95	Sciatic nerve transection increases glutathione antioxidant system activity and neuronal nitric oxide synthase expression in the spinal cord. Brain Research Bulletin, 2009, 80, 422-427.	3.0	23
96	Effect of 3-butyl-1-phenyl-2-(phenyltelluro)oct-en-1-one on oxidative stress in cerebral cortex of rats. Food and Chemical Toxicology, 2009, 47, 745-751.	3.6	16
97	DHEA effects on myocardial Akt signaling modulation and oxidative stress changes in aged rats. Steroids, 2009, 74, 1045-1050.	1.8	18
98	Diet with isolated soy protein reduces oxidative stress and preserves ventricular function in rats with myocardial infarction. Nutrition, Metabolism and Cardiovascular Diseases, 2009, 19, 91-97.	2.6	19
99	Increase in Reactive Oxygen Species and Activation of Akt Signaling Pathway in Neuropathic Pain. Cellular and Molecular Neurobiology, 2008, 28, 1049-1056.	3.3	56
100	EFFECTS OF A CHRONIC EXERCISE TRAINING PROTOCOL ON OXIDATIVE STRESS AND RIGHT VENTRICULAR HYPERTROPHY IN MONOCROTALINEâ€TREATED RATS. Clinical and Experimental Pharmacology and Physiology, 2008, 35, 944-948.	1.9	33
101	Dehydroepiandrosterone modulates antioxidant enzymes and Akt signaling in healthy Wistar rat hearts. Journal of Steroid Biochemistry and Molecular Biology, 2008, 112, 138-144.	2.5	33
102	Evaluation of Ventricular Function by Echocardiography and Its Correlation with Tissue Oxidative Stress 48h Following Experimental Myocardial Infarction in Rats. Journal of Cardiac Failure, 2008, 14, S23.	1.7	0
103	Exercise Training Reduces Sympathetic Modulation on Cardiovascular System and Cardiac Oxidative Stress in Spontaneously Hypertensive Rats. American Journal of Hypertension, 2008, 21, 1188-1193.	2.0	72
104	The role of redox signaling in cardiac hypertrophy induced by experimental hyperthyroidism. Journal of Molecular Endocrinology, 2008, 41, 423-430.	2.5	52
105	Oxidative stress activates insulin-like growth factor I receptor protein expression, mediating cardiac hypertrophy induced by thyroxine. Molecular and Cellular Biochemistry, 2007, 303, 89-95.	3.1	27
106	Oxidative balance and immunodetection of antioxidant enzymes in the hepatopancreas of the crab Chasmagnathus granulata subjected to anoxia and reoxygenation. Canadian Journal of Zoology, 2006, 84, 677-684.	1.0	9
107	Aortic-banding induces myocardial oxidative stress and changes in concentration and activity of antioxidants in male Wistar rats. Life Sciences, 2006, 79, 2187-2193.	4.3	18
108	Peripheral markers of oxidative stress in chronic mercuric chloride intoxication. Brazilian Journal of Medical and Biological Research, 2006, 39, 767-772.	1.5	22



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109	Baroreflex sensitivity improvement is associated with decreased oxidative stress in trained spontaneously hypertensive rat. <i>Journal of Hypertension</i> , 2006, 24, 2437-2443.	0.5	47
110	Neuropathic Pain Modifies Antioxidant Activity in Rat Spinal Cord. <i>Neurochemical Research</i> , 2006, 31, 603-609.	3.3	59
111	Exercise Training Improves Baroreflex Sensitivity Associated With Oxidative Stress Reduction in Ovariectomized Rats. <i>Hypertension</i> , 2005, 46, 998-1003.	2.7	96
112	Total antioxidant capacity is impaired in different structures from aged rat brain. <i>International Journal of Developmental Neuroscience</i> , 2005, 23, 663-671.	1.6	95
113	Effects of environmental anoxia and different periods of reoxygenation on oxidative balance in gills of the estuarine crab <i>Chasmagnathus granulata</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2005, 140, 51-57.	1.6	97
114	Myocardial antioxidant and oxidative stress changes due to sex hormones. <i>Brazilian Journal of Medical and Biological Research</i> , 2002, 35, 1075-1081.	1.5	147
115	Oxidative stress in congestive heart failure. <i>Current Cardiology Reports</i> , 2000, 2, 206-211.	2.9	50
116	Oxidative Stress Status in the Transition of Hypertrophy to Heart Failure. <i>Heart Failure Reviews</i> , 1999, 4, 353-360.	3.9	3