Luis Gabriel Navar

List of Publications by Year
in descending order

127 papers	6,400 citations	41344 49 h-index	69250 77 g-index
128 all docs	128 docs citations	128 times ranked	3516 citing authors

#	Article	IF	Citations
1	Regulation of Intrarenal Angiotensin II in Hypertension. Hypertension, 2002, 39, 316-322.	2.7	344
2	Enhancement of Intrarenal Angiotensinogen in Dahl Salt-Sensitive Rats on High Salt Diet. Hypertension, 2003, 41, 592-597.	2.7	239
3	Urinary Angiotensinogen as an Indicator of Intrarenal Angiotensin Status in Hypertension. Hypertension, 2003, 41, 42-49.	2.7	225
4	Expression of Angiotensinogen mRNA and Protein in Angiotensin II-Dependent Hypertension. Journal of the American Society of Nephrology: JASN, 2001, 12, 431-439.	6.1	219
5	Enhancement of Collecting Duct Renin in Angiotensin IIâ€"Dependent Hypertensive Rats. Hypertension, 2004, 44, 223-229.	2.7	210
6	Intratubular Renin-Angiotensin System in Hypertension. Hypertension, 2011, 57, 355-362.	2.7	199
7	Urinary Angiotensinogen as a Novel Biomarker of the Intrarenal Renin-Angiotensin System Status in Hypertensive Patients. Hypertension, 2009, 53, 344-350.	2.7	188
8	Enhancement of Angiotensinogen Expression in Angiotensin IIâ€"Dependent Hypertension. Hypertension, 2001, 37, 1329-1335.	2.7	178
9	Receptor-Mediated Intrarenal Angiotensin II Augmentation in Angiotensin IIâ€"Infused Rats. Hypertension, 1996, 28, 669-677.	2.7	165
10	Intrarenal angiotensin II and its contribution to the genesis of chronic hypertension. Current Opinion in Pharmacology, 2011, 11, 180-186.	3.5	149
11	AT₁receptor-mediated enhancement of collecting duct renin in angiotensin II-dependent hypertensive rats. American Journal of Physiology - Renal Physiology, 2005, 289, F632-F637.	2.7	122
12	Absence of glomerular injury or nephron loss in a normotensive rat remnant kidney model. Kidney International, 1990, 38, 28-38.	5.2	120
13	Inflammation as a Regulator of the Renin-Angiotensin System and Blood Pressure. Current Hypertension Reports, 2018, 20, 100.	3.5	119
14	Proximal Tubular Angiotensin II Levels and Renal Functional Responses to AT ₁ Receptor Blockade in Nonclipped Kidneys of Goldblatt Hypertensive Rats. Hypertension, 1999, 33, 102-107.	2.7	105
15	Kidney-specific enhancement of ANG II stimulates endogenous intrarenal angiotensinogen in gene-targeted mice. American Journal of Physiology - Renal Physiology, 2007, 293, F938-F945.	2.7	103
16	Collecting Duct Renin Is Upregulated in Both Kidneys of 2-Kidney, 1-Clip Goldblatt Hypertensive Rats. Hypertension, 2008, 51, 1590-1596.	2.7	103
17	Renal Accumulation of Circulating Angiotensin II in Angiotensin IIâ€"Infused Rats. Hypertension, 1996, 27, 658-662.	2.7	100
18	Impairment of pressure-natriuresis and renal autoregulation in ANG II-infused hypertensive rats. American Journal of Physiology - Renal Physiology, 2000, 279, F319-F325.	2.7	97

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19	Why are angiotensin concentrations so high in the kidney?. Current Opinion in Nephrology and Hypertension, 2004, 13, 107-115.	2.0	96
20	Canagliflozin Prevents Intrarenal Angiotensinogen Augmentation and Mitigates Kidney Injury and Hypertension in Mouse Model of Type 2 Diabetes Mellitus. American Journal of Nephrology, 2019, 49, 331-342.	3.1	95
21	Regulation of Angiotensin II Type 1 Receptor mRNA and Protein in Angiotensin IIâ€“Induced Hypertension. Hypertension, 1999, 33, 340-346.	2.7	89
22	Relation Between Renal Interstitial ATP Concentrations and Autoregulation-Mediated Changes in Renal Vascular Resistance. Circulation Research, 2000, 86, 656-662.	4.5	89
23	Intrarenal angiotensin II and hypertension. Current Hypertension Reports, 2003, 5, 135-143.	3.5	84
24	Extracellular ATP in the regulation of renal microvascular function 1. FASEB Journal, 1994, 8, 319-318.	0.5	80
25	Neuronal nitric oxide synthase modulates rat renal microvascular function. American Journal of Physiology - Renal Physiology, 1998, 274, F516-F524.	2.7	79
26	The intrarenal renin-angiotensin system in hypertension. Kidney International, 2004, 65, 1522-1532.	5.2	78
27	Interactions of adenosine A₁and A_{2a}receptors on renal microvascular reactivity. American Journal of Physiology - Renal Physiology, 2001, 280, F406-F414.	2.7	75
28	THE KIDNEY IN BLOOD PRESSURE REGULATION AND DEVELOPMENT OF HYPERTENSION. Medical Clinics of North America, 1997, 81, 1165-1198.	2.5	73
29	Unraveling the Mystery of Goldblatt Hypertension. Physiology, 1998, 13, 170-176.	3.1	71
30	Dynamic interaction between myogenic and TGF mechanisms in afferent arteriolar blood flow autoregulation. American Journal of Physiology - Renal Physiology, 2000, 279, F858-F865.	2.7	70
31	AT₁ receptor-mediated augmentation of angiotensinogen, oxidative stress, and inflammation in ANG II-salt hypertension. American Journal of Physiology - Renal Physiology, 2012, 302, F85-F94.	2.7	70
32	Angiotensin II Stimulates Renin in Inner Medullary Collecting Duct Cells via Protein Kinase C and Independent of Epithelial Sodium Channel and Mineralocorticoid Receptor Activity. Hypertension, 2011, 57, 594-599.	2.7	69
33	Urinary angiotensinogen is correlated with blood pressure in men (Bogalusa Heart Study). Journal of Hypertension, 2010, 28, 1422-1428.	0.5	68
34	Microvascular reactivity of in vitro blood perfused juxtamedullary nephrons from rats. Kidney International, 1985, 28, 752-759.	5.2	64
35	Interferonâ€Î³ biphasically regulates angiotensinogen expression<i>via</i>a JAKâ€STAT pathway and suppressor of cytokine signaling 1 (SOCS1) in renal proximal tubular cells. FASEB Journal, 2012, 26, 1821-1830.	0.5	63
36	Increased urinary excretion of angiotensinogen is associated with risk of chronic kidney disease. Nephrology Dialysis Transplantation, 2012, 27, 3176-3181.	0.7	63

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37	Intrarenal reninâ€“angiotensin system in regulation of glomerular function. Current Opinion in Nephrology and Hypertension, 2014, 23, 38-45.	2.0	63
38	Costimulation with angiotensin II and interleukin 6 augments angiotensinogen expression in cultured human renal proximal tubular cells. American Journal of Physiology - Renal Physiology, 2008, 295, F283-F289.	2.7	62
39	Intrarenal mouse renin-angiotensin system during ANG II-induced hypertension and ACE inhibition. American Journal of Physiology - Renal Physiology, 2010, 298, F150-F157.	2.7	62
40	Chronic Angiotensin II Infusion Drives Extensive Aldosterone-Independent Epithelial Na ⁺ Channel Activation. Hypertension, 2013, 62, 1111-1122.	2.7	61
41	Genetic disruption of atrial natriuretic peptide receptor-A alters renin and angiotensin II levels. American Journal of Physiology - Renal Physiology, 2001, 281, F665-F673.	2.7	59
42	Cyclooxygenase-2 Modulates Afferent Arteriolar Responses to Increases in Pressure. Hypertension, 1999, 34, 843-847.	2.7	58
43	Proximal tubular fluid angiotensin II levels in angiotensin II-induced hypertensive rats. Journal of Hypertension, 2003, 21, 353-360.	0.5	58
44	Intrarenal Nitric Oxide Activity and Pressure Natriuresis in Anesthetized Dogs. Hypertension, 1998, 32, 266-272.	2.7	57
45	Renal Renin-Angiotensin System. , 2004, 143, 117-130.		57
46	Review: Intrarenal angiotensin II levels in normal and hypertensive states. JRAAS - Journal of the Renin-Angiotensin-Aldosterone System, 2001, 2, S176-S184.	1.7	56
47	Augmentation of endogenous intrarenal angiotensin II levels in Val⁵-ANG II-infused rats. American Journal of Physiology - Renal Physiology, 2009, 296, F1067-F1071.	2.7	55
48	Increased renin excretion is associated with augmented urinary angiotensin II levels in chronic angiotensin II-infused hypertensive rats. American Journal of Physiology - Renal Physiology, 2011, 301, F1195-F1201.	2.7	55
49	Salt-Sensitive Hypertension: Perspectives on Intrarenal Mechanisms. Current Hypertension Reviews, 2015, 11, 38-48.	0.9	53
50	Role of Renal Nerves in Afferent Arteriolar Reactivity in Angiotensin-Induced Hypertension. Hypertension, 1997, 29, 442-449.	2.7	52
51	Cyclooxygenase-2 participates in tubular flow-dependent afferent arteriolar tone: interaction with neuronal NOS. American Journal of Physiology - Renal Physiology, 1998, 275, F605-F612.	2.7	52
52	Integrating multiple paracrine regulators of renal microvascular dynamics. American Journal of Physiology - Renal Physiology, 1998, 274, F433-F444.	2.7	51
53	Renin, Angiotensinogen, and Kallikrein Gene Expression in Two-Kidney Goldblatt Hypertensive Rats. American Journal of Hypertension, 1993, 6, 914-919.	2.0	48
54	Activation of the renin-angiotensin system by a low-salt diet does not augment intratubular angiotensinogen and angiotensin II in rats. American Journal of Physiology - Renal Physiology, 2013, 304, F505-F514.	2.7	47

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55	Renoprotective effects of nitric oxide in angiotensin II-induced hypertension in the rat. American Journal of Physiology - Renal Physiology, 1998, 274, F876-F882.	2.7	46
56	Purinergic receptors contribute to early mesangial cell transformation and renal vessel hypertrophy during angiotensin II-induced hypertension. American Journal of Physiology - Renal Physiology, 2008, 294, F161-F169.	2.7	45
57	Nebivolol-induced vasodilation of renal afferent arterioles involves Î²₃-adrenergic receptor and nitric oxide synthase activation. American Journal of Physiology - Renal Physiology, 2012, 303, F775-F782.	2.7	45
58	Interactive Nitric Oxideâ€"Angiotensin II Influences on Renal Microcirculation in Angiotensin IIâ€"Induced Hypertension. Hypertension, 1998, 31, 1255-1260.	2.7	44
59	High-salt intake enhances superoxide activity in eNOS knockout mice leading to the development of salt sensitivity. American Journal of Physiology - Renal Physiology, 2010, 299, F656-F663.	2.7	40
60	Nitric Oxide Dependency of Arterial Pressureâ€"Induced Changes in Renal Interstitial Hydrostatic Pressure in Dogs. Circulation Research, 2001, 88, 347-351.	4.5	39
61	Neuronal NOS contributes to biphasic autoregulatory response during enhanced TGF activity. American Journal of Physiology - Renal Physiology, 1999, 277, F113-F120.	2.7	37
62	Tumor necrosis factor-Î± suppresses angiotensinogen expression through formation of a p50/p50 homodimer in human renal proximal tubular cells. American Journal of Physiology - Cell Physiology, 2010, 299, C750-C759.	4.6	37
63	Renal medullary cyclooxygenase-2 and (pro)renin receptor expression during angiotensin II-dependent hypertension. American Journal of Physiology - Renal Physiology, 2014, 307, F962-F970.	2.7	33
64	Dietary Protein Intake and the Glomerular Adaptations to Partial Nephrectomy in Dogs. Journal of Nutrition, 1991, 121, S125-S127.	2.9	32
65	Contribution of renal purinergic receptors to renal vasoconstriction in angiotensin II-induced hypertensive rats. American Journal of Physiology - Renal Physiology, 2011, 300, F1301-F1309.	2.7	32
66	Pressure Natriuresis and Renal Medullary Blood Flow in Dogs. Hypertension, 1997, 29, 1051-1057.	2.7	32
67	Increased activity and expression of Ca²⁺-dependent NOS in renal cortex of ANG II-infused hypertensive rats. American Journal of Physiology - Renal Physiology, 1999, 277, F797-F804.	2.7	30
68	Blockade of sodium-glucose cotransporter 2 suppresses high glucose-induced angiotensinogen augmentation in renal proximal tubular cells. American Journal of Physiology - Renal Physiology, 2020, 318, F67-F75.	2.7	30
69	Effects of acute AT₁receptor blockade by candesartan on arterial pressure and renal function in rats. American Journal of Physiology - Renal Physiology, 1998, 274, F940-F945.	2.7	28
70	Neuronal Nitric Oxide Synthase-Dependent Afferent Arteriolar Function in Angiotensin II-Induced Hypertension. Hypertension, 1999, 33, 462-466.	2.7	28
71	Translational studies on augmentation of intratubular reninâ€"angiotensin system in hypertension. Kidney International Supplements, 2013, 3, 321-325.	14.2	28
72	The evolving complexity of the collecting duct reninâ€"angiotensin system in hypertension. Nature Reviews Nephrology, 2021, 17, 481-492.	9.6	28

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73	Renal interstitial fluid ATP responses to arterial pressure and tubuloglomerular feedback activation during calcium channel blockade. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H772-H777.	3.2	27
74	Vasopressin/V2 receptor stimulates renin synthesis in the collecting duct. American Journal of Physiology - Renal Physiology, 2016, 310, F284-F293.	2.7	27
75	EXTRACELLULAR ATP INCREASES CYTOSOLIC CALCIUM IN CULTURED RAT RENAL ARTERIAL SMOOTH MUSCLE CELLS. Clinical and Experimental Pharmacology and Physiology, 1996, 23, 503-507.	1.9	25
76	2-Methoxyestradiol Reduces Angiotensin IIâ€“Induced Hypertension and Renal Dysfunction in Ovariectomized Female and Intact Male Mice. Hypertension, 2017, 69, 1104-1112.	2.7	25
77	Physiopathological implications of P2X₁and P2X₇receptors in regulation of glomerular hemodynamics in angiotensin II-induced hypertension. American Journal of Physiology - Renal Physiology, 2017, 313, F9-F19.	2.7	24
78	Augmentation of angiotensinogen expression in the proximal tubule by intracellular angiotensin II via AT_{1a}/MAPK/NF-ÐºB signaling pathways. American Journal of Physiology - Renal Physiology, 2016, 310, F1103-F1112.	2.7	23
79	Defective Renal Angiotensin III and AT ₂ Receptor Signaling in Prehypertensive Spontaneously Hypertensive Rats. Journal of the American Heart Association, 2019, 8, e012016.	3.7	23
80	6Î²-Hydroxytestosterone, a Cytochrome P450 1B1-Testosteroneâ€“Metabolite, Mediates Angiotensin IIâ€“Induced Renal Dysfunction in Male Mice. Hypertension, 2016, 67, 916-926.	2.7	19
81	Advanced Glycation End Products Stimulate Angiotensinogen Production in Renal Proximal Tubular Cells. American Journal of the Medical Sciences, 2019, 357, 57-66.	1.1	18
82	Inducible Nitric Oxide Synthase Attenuates Endothelium-Dependent Renal Microvascular Vasodilation. Journal of the American Society of Nephrology: JASN, 2000, 11, 1807-1812.	6.1	17
83	The Role of P2X7 Purinergic Receptors in the Renal Inflammation Associated with Angiotensin II-Induced Hypertension. International Journal of Molecular Sciences, 2020, 21, 4041.	4.1	16
84	PGE₂upregulates renin through E-prostanoid receptor 1 via PKC/cAMP/CREB pathway in M-1 cells. American Journal of Physiology - Renal Physiology, 2017, 313, F1038-F1049.	2.7	15
85	ROCK/NF-ÎºB axis-dependent augmentation of angiotensinogen by angiotensin II in primary-cultured preglomerular vascular smooth muscle cells. American Journal of Physiology - Renal Physiology, 2014, 306, F608-F618.	2.7	14
86	Increased angiotensinogen expression, urinary angiotensinogen excretion, and tissue injury in nonclipped kidneys of two-kidney, one-clip hypertensive rats. American Journal of Physiology - Renal Physiology, 2016, 311, F278-F290.	2.7	13
87	Modulating Role of Ang1-7 in Control of Blood Pressure and Renal Function in AngII-infused Hypertensive Rats. American Journal of Hypertension, 2018, 31, 504-511.	2.0	13
88	Urine angiotensinogen and salt-sensitivity and potassium-sensitivity of blood pressure. Journal of Hypertension, 2015, 33, 1394-1400.	0.5	11
89	The role of IL-6 in the physiologic versus hypertensive blood pressure actions of angiotensin II. Physiological Reports, 2015, 3, e12595.	1.7	10
90	Romancing the macula densa at UAB. Kidney International, 2004, 66, S34-S40.	5.2	9

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91	Effects of serelaxin on renal microcirculation in rats under control and high-angiotensin environments. American Journal of Physiology - Renal Physiology, 2018, 314, F70-F80.	2.7	8
92	Integration of purinergic and angiotensin II receptor function in renal vascular responses and renal injury in angiotensin II-dependent hypertension. Purinergic Signalling, 2019, 15, 277-285.	2.2	8
93	Quantification of intact plasma AGT consisting of oxidized and reduced conformations using a modified ELISA. American Journal of Physiology - Renal Physiology, 2016, 311, F1211-F1216.	2.7	7
94	The Regulation of Glomerular Filtration Rate in Mammalian Kidneys. , 1986, , 637-667.		7
95	Purinergic P2X₁receptor, purinergic P2X₇receptor, and angiotensin II type 1 receptor interactions in the regulation of renal afferent arterioles in angiotensin II-dependent hypertension. American Journal of Physiology - Renal Physiology, 2020, 318, F1400-F1408.	2.7	6
96	Multi-Omics Approach Profiling Metabolic Remodeling in Early Systolic Dysfunction and in Overt Systolic Heart Failure. International Journal of Molecular Sciences, 2022, 23, 235.	4.1	5
97	Simulations of Glomerular Shear and Hoop Stresses in Diabetes, Hypertension, and Reduced Renal Mass using a Network Model of a Rat Glomerulus. Physiological Reports, 2020, 8, e14577.	1.7	4
98	Immunosuppression by Mycophenolate Mofetil Mitigates Intrarenal Angiotensinogen Augmentation in Angiotensin II-Dependent Hypertension. International Journal of Molecular Sciences, 2022, 23, 7680.	4.1	4
99	Simulations of increased glomerular capillary wall strain in the 5/6â€nephrectomized rat. Microcirculation, 2021, 28, e12721.	1.8	3
100	Angiotensin IIâ€induced renal angiotensinogen formation is enhanced in mice lacking tumor necrosis factorâ€alpha type 1 receptor. Physiological Reports, 2021, 9, e14990.	1.7	3
101	A Rat Model of Pressure Overload Induced Moderate Remodeling and Systolic Dysfunction as Opposed to Overt Systolic Heart Failure. Journal of Visualized Experiments, 2020, , .	0.3	2
102	Exercise-Induced Modulation of Angiotensin II Responses in Femoral Veins From 2-Kidney-1-Clip Hypertensive Rats. Frontiers in Physiology, 2021, 12, 620438.	2.8	1
103	Last Word on Counterpoint: Activation of the intrarenal renin-angiotensin system is the dominant contributor to systemic hypertension. Journal of Applied Physiology, 2010, 109, 2015-2015.	2.5	1
104	High salt intake exacerbates renal tissue oxidative stress and urinary angiotensinogen excretion during AngIIâ€dependent hypertension.. FASEB Journal, 2010, 24, 1059.16.	0.5	1
105	Blood pressure independent sexual dimorphism in proteinuric response to high salt intake in Spragueâ€Dawley rats.. FASEB Journal, 2010, 24, .	0.5	1
106	High salt induced augmentation of angiotensin II mediated hypertension is associated with differential expression of tumor necrosis factor-alpha receptors in the kidney. Exploration of Medicine, 0, , 205-218.	1.5	1
107	The 60th Annual Fall Conference and Scientific Sessions of the Council for High Blood Pressure Research in association with the Council on the Kidney in Cardiovascular Disease. Hypertension, 2007, 49, 585-586.	2.7	0
108	2016 Young Investigator Award of the American Physiological Society Renal Section. American Journal of Physiology - Renal Physiology, 2016, 310, F805-F806.	2.7	0

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109	Why until just now? Undiscovered uniqueness of the human glomerulus!. American Journal of Physiology - Renal Physiology, 2018, 315, F1345-F1346.	2.7	0
110	Edward D. Frohlich, MD. Hypertension, 2019, 74, 1229-1231.	2.7	0
111	A Novel Model of Renal Autoregulation Demonstrates Dynamic Modulatory Interactions between TGF and Myogenic Mechanisms. FASEB Journal, 2021, 35, .	0.5	0
112	Acute heme oxygenase inhibition does not alter afferent arteriolar responses to angiotensin II or increases in perfusion pressure in normal kidneys. FASEB Journal, 2007, 21, A844.	0.5	0
113	The effects of nonâ€pressor and pressor doses of nitric oxide synthase inhibitor on renal excretion and regional blood flow in rat kidneys. FASEB Journal, 2008, 22, 749.12.	0.5	0
114	Intrarenal RAS expression during Ang IIâ€infusions and ACE inhibition. FASEB Journal, 2009, 23, 606.11.	0.5	0
115	High Salt Exacerbates Proteinuria in Chronic Angiotensinâ€II Infused Rats.. FASEB Journal, 2009, 23, 1016.1.	0.5	0
116	Kidney Injury Response to Elevated Blood Pressure vs Increased Intrarenal Ang II in 2K1C Goldblatt Hypertensive Rats. FASEB Journal, 2009, 23, 626.21.	0.5	0
117	Kidney microRNA expression profile in Ang IIâ€dependent Hypertension. FASEB Journal, 2010, 24, 605.13.	0.5	0
118	Increased Urinary Renin Excretion Rate in Chronic Ang IIâ€infused Rats Fed a High Salt Diet leads to augmented urinary Ang II levels.. FASEB Journal, 2010, 24, 605.16.	0.5	0
119	AT1 receptorâ€mediated augmentation of urinary excretion of endogenous Ang II in Val5â€Ang II infused rats. FASEB Journal, 2010, 24, 605.11.	0.5	0
120	Urinary Renin Excretion is augmented in Chronic Angiotensin IIâ€infused Spragueâ€Dawley Hypertensive Rats. FASEB Journal, 2010, 24, 786.18.	0.5	0
121	Soluble guanylyl cyclase inhibition prevents nebivololâ€induced vasodilation in renal afferent arterioles. FASEB Journal, 2011, 25, .	0.5	0
122	The Sodiumâ€Activated Sodium Channel (Nax) present in kidney thick ascending limb and collecting duct cells is augmented during high salt intake. FASEB Journal, 2011, 25, 1039.30.	0.5	0
123	Collecting Duct Renin Synthesis and Secretion are Stimulated by Angiotensin (Ang) II via Protein Kinase C (PKC) Activation and cAMP Accumulation. FASEB Journal, 2012, 26, 1103.3.	0.5	0
124	Physiological activation of Renalâ€Angiotensin System (RAS) by low salt diet does not cause kidney injury. FASEB Journal, 2012, 26, lb817.	0.5	0
125	Dissociation of vascular and natriuretic Ang1â€"7 actions in AngII hypertensive and normotensive rats. FASEB Journal, 2013, 27, 909.11.	0.5	0
126	Glomerular Capillary Hypertrophy in the Diabetic Rat Normalizes Wall Shear Stress: A Modeling Study. FASEB Journal, 2019, 33, 748.13.	0.5	0

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127	Sex Differences in Urinary Angiotensinogen (uAGT) Excretion, Renal Function, and Systolic Blood Pressure in 2â€Kidney, 1â€Clip Hypertensive Rats. FASEB Journal, 2020, 34, 1-1.	0.5	0