

Rafael Kramann

List of Publications by Year in descending order

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Version: 2024-02-01

128
papers

8,410
citations

47409

49
h-index

58552

86
g-index

145
all docs

145
docs citations

145
times ranked

12533
citing authors

#	ARTICLE	IF	CITATIONS
1	Intravenous sodium thiosulphate for vascular calcification of hemodialysis patients—a systematic review and meta-analysis. <i>Nephrology Dialysis Transplantation</i> , 2023, 38, 733-745.	0.4	6
2	Experimental and computational technologies to dissect the kidney at the single-cell level. <i>Nephrology Dialysis Transplantation</i> , 2022, 37, 628-637.	0.4	6
3	Implementation of Pericytes in Vascular Regeneration Strategies. <i>Tissue Engineering - Part B: Reviews</i> , 2022, 28, 1-21.	2.5	17
4	Combining phosphate binder therapy with vitamin K2 inhibits vascular calcification in an experimental animal model of kidney failure. <i>Nephrology Dialysis Transplantation</i> , 2022, 37, 652-662.	0.4	11
5	Altered vitamin K biodistribution and metabolism in experimental and human chronic kidney disease. <i>Kidney International</i> , 2022, 101, 338-348.	2.6	21
6	CRISPR/Cas9 editing in conditionally immortalized HoxB8 cells for studying gene regulation in mouse dendritic cells. <i>European Journal of Immunology</i> , 2022, 52, 1859-1862.	1.6	7
7	Carbamylated sortilin associates with cardiovascular calcification in patients with chronic kidney disease. <i>Kidney International</i> , 2022, 101, 574-584.	2.6	14
8	A systematic review and meta-analysis of murine models of uremic cardiomyopathy. <i>Kidney International</i> , 2022, 101, 256-273.	2.6	13
9	Differential Effects of Platelet Factor 4 (CXCL4) and Its Non-Allelic Variant (CXCL4L1) on Cultured Human Vascular Smooth Muscle Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 580.	1.8	6
10	Dexamethasone sensitizes to ferroptosis by glucocorticoid receptor-induced dipeptidase-1 expression and glutathione depletion. <i>Science Advances</i> , 2022, 8, eabl8920.	4.7	39
11	CXCR3 is a key regulator during macrophage differentiation and has a significant impact on tumor-associated macrophages. <i>Zeitschrift Fur Gastroenterologie</i> , 2022, 60, .	0.2	0
12	SARS-CoV-2 infects the human kidney and drives fibrosis in kidney organoids. <i>Cell Stem Cell</i> , 2022, 29, 217-231.e8.	5.2	146
13	Desmoplakin Maintains Transcellular Keratin Scaffolding and Protects From Intestinal Injury. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2022, 13, 1181-1200.	2.3	7
14	Mapping the human kidney using single-cell genomics. <i>Nature Reviews Nephrology</i> , 2022, 18, 347-360.	4.1	34
15	Human pluripotent stem cell-derived kidney organoids for personalized congenital and idiopathic nephrotic syndrome modeling. <i>Development (Cambridge)</i> , 2022, 149, .	1.2	16
16	MO185: Post-Translational Carbamylation of Sortilin is Associated with Cardiovascular Calcification in Chronic Kidney Disease. <i>Nephrology Dialysis Transplantation</i> , 2022, 37, .	0.4	0
17	Mapping the cardiac vascular niche in heart failure. <i>Nature Communications</i> , 2022, 13, .	5.8	31
18	The sodium-glucose co-transporter-2 inhibitor ertugliflozin modifies the signature of cardiac substrate metabolism and reduces cardiac mTOR signalling, endoplasmic reticulum stress and apoptosis. <i>Diabetes, Obesity and Metabolism</i> , 2022, 24, 2263-2272.	2.2	20

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19	Deep Learning-Based Segmentation and Quantification in Experimental Kidney Histopathology. Journal of the American Society of Nephrology: JASN, 2021, 32, 52-68.	3.0	93
20	Heterogeneous bone-marrow stromal progenitors drive myelofibrosis via a druggable alarmin axis. Cell Stem Cell, 2021, 28, 637-652.e8.	5.2	92
21	Deep Learning-Based Bias Transfer for Overcoming Laboratory Differences of Microscopic Images. Lecture Notes in Computer Science, 2021, , 322-336.	1.0	1
22	Speckle-tracking echocardiography in comparison with ejection fraction for prediction of cardiovascular mortality in patients with end-stage renal disease. CKJ: Clinical Kidney Journal, 2021, 14, 1579-1585.	1.4	6
23	Mouse Models of Kidney Fibrosis. Methods in Molecular Biology, 2021, 2299, 323-338.	0.4	6
24	Kidney Allograft Fibrosis: Diagnostic and Therapeutic Strategies. Transplantation, 2021, 105, e114-e130.	0.5	13
25	Genetically determined NLRP3 inflammasome activation associates with systemic inflammation and cardiovascular mortality. European Heart Journal, 2021, 42, 1742-1756.	1.0	63
26	Deep learning-based molecular morphometrics for kidney biopsies. JCI Insight, 2021, 6, .	2.3	31
27	MO592INTERLEUKIN-1A (IL-1A) IS A CENTRAL REGULATOR OF INFLAMMATION IN CARDIOVASCULAR AND KIDNEY DISEASES. Nephrology Dialysis Transplantation, 2021, 36, .	0.4	0
28	Dysfunction of the key ferroptosis-surveilling systems hypersensitizes mice to tubular necrosis during acute kidney injury. Nature Communications, 2021, 12, 4402.	5.8	116
29	Development of the BioHybrid Assay: Combining Primary Human Vascular Smooth Muscle Cells and Blood to Measure Vascular Calcification Propensity. Cells, 2021, 10, 2097.	1.8	6
30	CRISPR/Cas9 mediated CXCL4 knockout in human iPS cells of polycythemia vera patient with JAK2 V617F mutation. Stem Cell Research, 2021, 55, 102490.	0.3	2
31	Guanidylated Apolipoprotein C3 (ApoC3) Associates with Kidney and Vascular Injury. Journal of the American Society of Nephrology: JASN, 2021, 32, 3146-3160.	3.0	16
32	Interleukin-1 β Is a Central Regulator of Leukocyte-Endothelial Adhesion in Myocardial Infarction and in Chronic Kidney Disease. Circulation, 2021, 144, 893-908.	1.6	36
33	Causal integration of multi-omics data with prior knowledge to generate mechanistic hypotheses. Molecular Systems Biology, 2021, 17, e9730.	3.2	78
34	Decoding myofibroblast origins in human kidney fibrosis. Nature, 2021, 589, 281-286.	13.7	380
35	Chromatin-accessibility estimation from single-cell ATAC-seq data with scOpen. Nature Communications, 2021, 12, 6386.	5.8	57
36	New Aspects of Kidney Fibrosis-From Mechanisms of Injury to Modulation of Disease. Frontiers in Medicine, 2021, 8, 814497.	1.2	21

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37	MEOX1: a novel druggable target that orchestrates the activation of fibroblasts in cardiac fibrosis. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 440.	7.1	7
38	Magnesium but not nicotinamide prevents vascular calcification in experimental uraemia. <i>Nephrology Dialysis Transplantation</i> , 2020, 35, 65-73.	0.4	23
39	A Functional Landscape of CKD Entities From Public Transcriptomic Data. <i>Kidney International Reports</i> , 2020, 5, 211-224.	0.4	14
40	Apolipoprotein C3 induces inflammation and organ damage by alternative inflammasome activation. <i>Nature Immunology</i> , 2020, 21, 30-41.	7.0	169
41	Increased CXCL4 expression in hematopoietic cells links inflammation and progression of bone marrow fibrosis in MPN. <i>Blood</i> , 2020, 136, 2051-2064.	0.6	56
42	Big Data Approaches in Heart Failure Research. <i>Current Heart Failure Reports</i> , 2020, 17, 213-224.	1.3	13
43	Fibrosis and Immune Cell Infiltration Are Separate Events Regulated by Cell-Specific Receptor Notch3 Expression. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 2589-2608.	3.0	14
44	Only Hyperuricemia with Crystalluria, but not Asymptomatic Hyperuricemia, Drives Progression of Chronic Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 2773-2792.	3.0	66
45	Different subpopulations of kidney interstitial cells produce erythropoietin and factors supporting tissue oxygenation in response to hypoxia in vivo. <i>Kidney International</i> , 2020, 98, 918-931.	2.6	31
46	Cardiac Remodeling in Chronic Kidney Disease. <i>Toxins</i> , 2020, 12, 161.	1.5	81
47	Vitamin K2 Needs an RDI Separate from Vitamin K1. <i>Nutrients</i> , 2020, 12, 1852.	1.7	43
48	Luminal calcification and microvasculopathy in fetuin-A-deficient mice lead to multiple organ morbidity. <i>PLoS ONE</i> , 2020, 15, e0228503.	1.1	35
49	Title is missing!. , 2020, 15, e0228503.		0
50	Title is missing!. , 2020, 15, e0228503.		0
51	Title is missing!. , 2020, 15, e0228503.		0
52	Title is missing!. , 2020, 15, e0228503.		0
53	Optical Clearing and Imaging of Immunolabeled Kidney Tissue. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	5
54	Speckle Tracking Echocardiography and All-Cause and Cardiovascular Mortality Risk in Chronic Kidney Disease Patients. <i>Kidney and Blood Pressure Research</i> , 2019, 44, 690-703.	0.9	9

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55	Heterogeneity and plasticity in healthy and atherosclerotic vasculature explored by single-cell sequencing. <i>Cardiovascular Research</i> , 2019, 115, 1705-1715.	1.8	36
56	Transcriptome analysis reveals microvascular endothelial cell-dependent pericyte differentiation. <i>Scientific Reports</i> , 2019, 9, 15586.	1.6	22
57	SP321DISSECTING THE MOLECULAR DIFFERENCES BETWEEN CHRONIC KIDNEY DISEASE SUBTYPES FROM TRANSCRIPTOMICS DATA. <i>Nephrology Dialysis Transplantation</i> , 2019, 34, .	0.4	0
58	Non-canonical HIF-1 stabilization contributes to intestinal tumorigenesis. <i>Oncogene</i> , 2019, 38, 5670-5685.	2.6	26
59	Novel 3D analysis using optical tissue clearing documents the evolution of murine rapidly progressive glomerulonephritis. <i>Kidney International</i> , 2019, 96, 505-516.	2.6	35
60	Disruption of CUL3-mediated ubiquitination causes proximal tubule injury and kidney fibrosis. <i>Scientific Reports</i> , 2019, 9, 4596.	1.6	20
61	Big science and big data in nephrology. <i>Kidney International</i> , 2019, 95, 1326-1337.	2.6	56
62	Elastin imaging enables noninvasive staging and treatment monitoring of kidney fibrosis. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	56
63	Vitamin K: Double Bonds beyond Coagulation Insights into Differences between Vitamin K1 and K2 in Health and Disease. <i>International Journal of Molecular Sciences</i> , 2019, 20, 896.	1.8	144
64	Valvular Calcification in Chronic Kidney Disease. <i>Advances in Chronic Kidney Disease</i> , 2019, 26, 464-471.	0.6	31
65	The authors reply. <i>Kidney International</i> , 2019, 96, 1422-1423.	2.6	0
66	Fibrosis driving myofibroblast precursors in MPN and new therapeutic pathways. <i>HemaSphere</i> , 2019, 3, 142-145.	1.2	1
67	Rps14, Csnk1a1 and miRNA145/miRNA146a deficiency cooperate in the clinical phenotype and activation of the innate immune system in the 5q- syndrome. <i>Leukemia</i> , 2019, 33, 1759-1772.	3.3	35
68	mTOR-mediated podocyte hypertrophy regulates glomerular integrity in mice and humans. <i>JCI Insight</i> , 2019, 4, .	2.3	69
69	Transcriptional Landscape of the Microenvironment in Bone Marrow Fibrosis at Single Cell Level. <i>Blood</i> , 2019, 134, 1675-1675.	0.6	2
70	Single-nephron proteomes connect morphology and function in proteinuric kidney disease. <i>Kidney International</i> , 2018, 93, 1308-1319.	2.6	49
71	The identification of fibrosis-driving myofibroblast precursors reveals new therapeutic avenues in myelofibrosis. <i>Blood</i> , 2018, 131, 2111-2119.	0.6	48
72	Understanding deregulated cellular and molecular dynamics in the haematopoietic stem cell niche to develop novel therapeutics for bone marrow fibrosis. <i>Journal of Pathology</i> , 2018, 245, 138-146.	2.1	16

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73	The new SFB/TRR219 Research Centre. <i>European Heart Journal</i> , 2018, 39, 975-977.	1.0	11
74	Sclerostin deficiency modifies the development of CKD-MBD in mice. <i>Bone</i> , 2018, 107, 115-123.	1.4	20
75	SP406MAGNESIUM AND NICOTINAMIDE: COMPLEMENTARY STRATEGIES AGAINST CALCIFICATION IN EXPERIMENTAL UREMIA. <i>Nephrology Dialysis Transplantation</i> , 2018, 33, i484-i484.	0.4	0
76	Initiation and Propagation of Vascular Calcification Is Regulated by a Concert of Platelet- and Smooth Muscle Cell-Derived Extracellular Vesicles. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 36.	1.1	69
77	Parabiosis and single-cell RNA sequencing reveal a limited contribution of monocytes to myofibroblasts in kidney fibrosis. <i>JCI Insight</i> , 2018, 3, .	2.3	79
78	Calcific uraemic arteriopathy (calciphylaxis): data from a large nationwide registry. <i>Nephrology Dialysis Transplantation</i> , 2017, 32, gfv438.	0.4	113
79	Gli1 + Mesenchymal Stromal Cells Are a Key Driver of Bone Marrow Fibrosis and an Important Cellular Therapeutic Target. <i>Cell Stem Cell</i> , 2017, 20, 785-800.e8.	5.2	195
80	Developmental Signaling and Organ Fibrosis. <i>Current Pathobiology Reports</i> , 2017, 5, 133-143.	1.6	4
81	Slower Progress of Aortic Valve Calcification With Vitamin K Supplementation. <i>Circulation</i> , 2017, 135, 2081-2083.	1.6	114
82	Endothelial marker-expressing stromal cells are critical for kidney formation. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, F611-F620.	1.3	14
83	Mesenchymal Stem Cells in Fibrotic Disease. <i>Cell Stem Cell</i> , 2017, 21, 166-177.	5.2	309
84	Gli1+ Pericyte Loss Induces Capillary Rarefaction and Proximal Tubular Injury. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 776-784.	3.0	125
85	SP329VITAMIN K ELIMINATES UREMIC POSTTRANSLATIONAL MODIFICATIONS OF THE GAMMA-GLUTAMYL CARBOXYLASE. <i>Nephrology Dialysis Transplantation</i> , 2016, 31, i200-i200.	0.4	0
86	Role of mesenchymal stem cells in kidney injury and fibrosis. <i>Current Opinion in Nephrology and Hypertension</i> , 2016, 25, 372-377.	1.0	32
87	Adventitial MSC-like Cells Are Progenitors of Vascular Smooth Muscle Cells and Drive Vascular Calcification in Chronic Kidney Disease. <i>Cell Stem Cell</i> , 2016, 19, 628-642.	5.2	254
88	Hedgehog Gli signalling in kidney fibrosis. <i>Nephrology Dialysis Transplantation</i> , 2016, 31, 1989-1995.	0.4	38
89	An engineered multicomponent bone marrow niche for the recapitulation of hematopoiesis at ectopic transplantation sites. <i>Journal of Hematology and Oncology</i> , 2016, 9, 4.	6.9	35
90	Lack of evidence does not justify neglect: how can we address unmet medical needs in calciphylaxis?. <i>Nephrology Dialysis Transplantation</i> , 2016, 31, 1211-1219.	0.4	52

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91	Rps14 haploinsufficiency causes a block in erythroid differentiation mediated by S100A8 and S100A9. <i>Nature Medicine</i> , 2016, 22, 288-297.	15.2	191
92	Epicardial adipose tissue in long-term hemodialysis patients: its association with vascular calcification and long-term development. <i>Journal of Nephrology</i> , 2016, 29, 241-250.	0.9	13
93	Paracrine Wnt1 Drives Interstitial Fibrosis without Inflammation by Tubulointerstitial Cross-Talk. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 781-790.	3.0	107
94	Sortilin mediates vascular calcification via its recruitment into extracellular vesicles. <i>Journal of Clinical Investigation</i> , 2016, 126, 1323-1336.	3.9	196
95	Perivascular Gli1+ Progenitors Are Key Contributors to Injury-Induced Organ Fibrosis. <i>Cell Stem Cell</i> , 2015, 16, 51-66.	5.2	738
96	Who regenerates the kidney tubule?. <i>Nephrology Dialysis Transplantation</i> , 2015, 30, 903-910.	0.4	74
97	Pharmacological GLI2 inhibition prevents myofibroblast cell-cycle progression and reduces kidney fibrosis. <i>Journal of Clinical Investigation</i> , 2015, 125, 2935-2951.	3.9	143
98	Fluorescence Microangiography for Quantitative Assessment of Peritubular Capillary Changes after AKI in Mice. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 1924-1931.	3.0	105
99	Differentiated kidney epithelial cells repair injured proximal tubule. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1527-1532.	3.3	392
100	Role of Casein Kinase 1A1 in the Biology and Targeted Therapy of del(5q) MDS. <i>Cancer Cell</i> , 2014, 26, 509-520.	7.7	158
101	Speckle Tracking Echocardiography Detects Uremic Cardiomyopathy Early and Predicts Cardiovascular Mortality in ESRD. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 2351-2365.	3.0	91
102	Kidney Pericytes: Roles in Regeneration and Fibrosis. <i>Seminars in Nephrology</i> , 2014, 34, 374-383.	0.6	120
103	Mesenchymal Stem Cells from Rats with Chronic Kidney Disease Exhibit Premature Senescence and Loss of Regenerative Potential. <i>PLoS ONE</i> , 2014, 9, e92115.	1.1	76
104	Matrix-Producing Cells in Chronic Kidney Disease: Origin, Regulation, and Activation. <i>Current Pathobiology Reports</i> , 2013, 1, 301-311.	1.6	49
105	Understanding the origin, activation and regulation of matrix-producing myofibroblasts for treatment of fibrotic disease. <i>Journal of Pathology</i> , 2013, 231, 273-289.	2.1	195
106	Novel insights into osteogenesis and matrix remodelling associated with calcific uraemic arteriopathy. <i>Nephrology Dialysis Transplantation</i> , 2013, 28, 856-868.	0.4	83
107	Osteogenesis of Heterotopically Transplanted Mesenchymal Stromal Cells in Rat Models of Chronic Kidney Disease. <i>Journal of Bone and Mineral Research</i> , 2013, 28, 2523-2534.	3.1	26
108	Parathyroid hormone-related protein and regulation of cell survival in the kidney. <i>Kidney International</i> , 2013, 83, 777-779.	2.6	6

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109	Relationship between sclerostin and cardiovascular calcification in hemodialysis patients: a cross-sectional study. <i>BMC Nephrology</i> , 2013, 14, 219.	0.8	142
110	Sclerostin as a potential novel biomarker for aortic valve calcification: an in-vivo and ex-vivo study. <i>Journal of Heart Valve Disease</i> , 2013, 22, 317-25.	0.5	66
111	Calciphylaxis in CKD and beyond. <i>Nephrology Dialysis Transplantation</i> , 2012, 27, 1314-1318.	0.4	55
112	Uraemia disrupts the vascular niche in a 3D co-culture system of human mesenchymal stem cells and endothelial cells. <i>Nephrology Dialysis Transplantation</i> , 2012, 27, 2693-2702.	0.4	11
113	Prognostic impact of renal arterial resistance index upon renal allograft survival: the time point matters. <i>Nephrology Dialysis Transplantation</i> , 2012, 27, 3958-3963.	0.4	33
114	Hyaluronan serum concentrations are elevated in critically ill patients and associated with disease severity. <i>Clinical Biochemistry</i> , 2012, 45, 82-87.	0.8	47
115	Medical options to fight mortality in end-stage renal disease: a review of the literature. <i>Nephrology Dialysis Transplantation</i> , 2012, 27, 4298-4307.	0.4	25
116	Epithelial morphogenesis of germline-derived pluripotent stem cells on organotypic skin equivalents in vitro. <i>Differentiation</i> , 2012, 83, 138-147.	1.0	12
117	3D co-culture of hematopoietic stem and progenitor cells and mesenchymal stem cells in collagen scaffolds as a model of the hematopoietic niche. <i>Biomaterials</i> , 2012, 33, 1736-1747.	5.7	158
118	The next level of complexity: post-transcriptional regulation by microRNAs. <i>Kidney International</i> , 2011, 80, 692-693.	2.6	5
119	Exposure to Uremic Serum Induces a Procalcific Phenotype in Human Mesenchymal Stem Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, e45-54.	1.1	44
120	The role of biomaterials in the direction of mesenchymal stem cell properties and extracellular matrix remodelling in dermal tissue engineering. <i>Biomaterials</i> , 2010, 31, 7948-7959.	5.7	64
121	The osteogenic differentiation of adult bone marrow and perinatal umbilical mesenchymal stem cells and matrix remodelling in three-dimensional collagen scaffolds. <i>Biomaterials</i> , 2010, 31, 467-480.	5.7	203
122	Long-term survival and characterisation of human umbilical cord-derived mesenchymal stem cells on dermal equivalents. <i>Differentiation</i> , 2010, 79, 182-193.	1.0	51
123	Myocardial Deformation Imaging Based on Ultrasonic Pixel Tracking to Identify Reversible Myocardial Dysfunction. <i>Journal of the American College of Cardiology</i> , 2008, 51, 1473-1481.	1.2	85
124	Impact of left ventricular lead position on the efficacy of cardiac resynchronisation therapy: a two-dimensional strain echocardiography study. <i>Heart</i> , 2007, 93, 1197-1203.	1.2	89
125	Impact of left ventricular lead position in cardiac resynchronization therapy on left ventricular remodelling. A circumferential strain analysis based on 2D echocardiography. <i>European Heart Journal</i> , 2007, 28, 1211-1220.	1.0	149
126	Impact of Left Ventricular Loading Conditions on Myocardial Deformation Parameters: Analysis of Early and Late Changes of Myocardial Deformation Parameters after Aortic Valve Replacement. <i>Journal of the American Society of Echocardiography</i> , 2007, 20, 681-689.	1.2	82

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127	Analysis of myocardial deformation based on ultrasonic pixel tracking to determine transmural extent of chronic myocardial infarction. <i>European Heart Journal</i> , 2006, 27, 2560-2566.	1.0	150
128	Dissecting the Functional Reprogramming of the Microenvironment in Bone Marrow Fibrosis at the Single Cell Level. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0