

# James F Markmann

## List of Publications by Year in descending order

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125  
papers

5,047  
citations

136950

32  
h-index

106344

65  
g-index

129  
all docs

129  
docs citations

129  
times ranked

5947  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase 3 Trial of Transplantation of Human Islets in Type 1 Diabetes Complicated by Severe Hypoglycemia. <i>Diabetes Care</i> , 2016, 39, 1230-1240.	8.6	498
2	The promise of organ and tissue preservation to transform medicine. <i>Nature Biotechnology</i> , 2017, 35, 530-542.	17.5	371
3	Regulatory cell therapy in kidney transplantation (The ONE Study): a harmonised design and analysis of seven non-randomised, single-arm, phase 1/2A trials. <i>Lancet</i> , The, 2020, 395, 1627-1639.	13.7	266
4	Long-Term Survival After Retransplantation of the Liver. <i>Annals of Surgery</i> , 1997, 226, 408-420.	4.2	198
5	TGF $\beta$ 2-producing regulatory B cells induce regulatory T cells and promote transplantation tolerance. <i>European Journal of Immunology</i> , 2014, 44, 1728-1736.	2.9	189
6	Injury to peribiliary glands and vascular plexus before liver transplantation predicts formation of non-anastomotic biliary strictures. <i>Journal of Hepatology</i> , 2014, 60, 1172-1179.	3.7	170
7	Impact of Portable Normothermic Blood-Based Machine Perfusion on Outcomes of Liver Transplant. <i>JAMA Surgery</i> , 2022, 157, 189.	4.3	154
8	National Institutes of Healthâ€“Sponsored Clinical Islet Transplantation Consortium Phase 3 Trial: Manufacture of a Complex Cellular Product at Eight Processing Facilities. <i>Diabetes</i> , 2016, 65, 3418-3428.	0.6	143
9	Elevated portal vein drug levels of sirolimus and tacrolimus in islet transplant recipients: local immunosuppression or islet toxicity?1. <i>Transplantation</i> , 2003, 76, 1623-1625.	1.0	139
10	Extensive germline genome engineering in pigs. <i>Nature Biomedical Engineering</i> , 2021, 5, 134-143.	22.5	117
11	Promotion of Allograft Survival by CD4+CD25+ Regulatory T Cells: Evidence for In Vivo Inhibition of Effector Cell Proliferation. <i>Journal of Immunology</i> , 2004, 172, 6539-6544.	0.8	104
12	PD-L1 genetic overexpression or pharmacological restoration in hematopoietic stem and progenitor cells reverses autoimmune diabetes. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	99
13	A SIMPLE MODEL TO ESTIMATE SURVIVAL AFTER RETRANSPLANTATION OF THE LIVER1. <i>Transplantation</i> , 1999, 67, 422-430.	1.0	96
14	Cutting Edge: Transplant Tolerance Induced by Anti-CD45RB Requires B Lymphocytes. <i>Journal of Immunology</i> , 2007, 178, 6028-6032.	0.8	90
15	Improved Health-Related Quality of Life in a Phase 3 Islet Transplantation Trial in Type 1 Diabetes Complicated by Severe Hypoglycemia. <i>Diabetes Care</i> , 2018, 41, 1001-1008.	8.6	89
16	Co-transplantation of autologous MSCs delays islet allograft rejection and generates a local immunoprivileged site. <i>Acta Diabetologica</i> , 2015, 52, 917-927.	2.5	87
17	Metabolic profiling during ex vivo machine perfusion of the human liver. <i>Scientific Reports</i> , 2016, 6, 22415.	3.3	85
18	Defining outcomes for $\beta$ -cell replacement therapy in the treatment of diabetes: a consensus report on the Igl criteria from the IPITA/EPITA opinion leaders workshop. <i>Transplant International</i> , 2018, 31, 343-352.	1.6	80

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19	Expanding controlled donation after the circulatory determination of death: statement from an international collaborative. <i>Intensive Care Medicine</i> , 2021, 47, 265-281.	8.2	80
20	Feasibility, long-term safety, and immune monitoring of regulatory T cell therapy in living donor kidney transplant recipients. <i>American Journal of Transplantation</i> , 2021, 21, 1603-1611.	4.7	79
21	Defining Outcomes for Î²-cell Replacement Therapy in the Treatment of Diabetes. <i>Transplantation</i> , 2018, 102, 1479-1486.	1.0	75
22	Report of the Key Opinion Leaders Meeting on Stem Cell-derived Beta Cells. <i>Transplantation</i> , 2018, 102, 1223-1229.	1.0	72
23	Liver Transplantation Outcomes in a U.S. Multicenter Cohort of 789 Patients With Hepatocellular Carcinoma Presenting Beyond Milan Criteria. <i>Hepatology</i> , 2020, 72, 2014-2028.	7.3	68
24	Pre-emptive pangenotypic direct acting antiviral therapy in donor HCV-positive to recipient HCV-negative heart transplantation: an open-label study. <i>The Lancet Gastroenterology and Hepatology</i> , 2019, 4, 771-780.	8.1	66
25	Pathologic Response to Pretransplant Locoregional Therapy is Predictive of Patient Outcome After Liver Transplantation for Hepatocellular Carcinoma. <i>Annals of Surgery</i> , 2020, 271, 616-624.	4.2	65
26	Islet transplantation in the subcutaneous space achieves long-term euglycaemia in preclinical models of type 1 diabetes. <i>Nature Metabolism</i> , 2020, 2, 1013-1020.	11.9	64
27	Phase 3 trial of human islet-after-kidney transplantation in type 1 diabetes. <i>American Journal of Transplantation</i> , 2021, 21, 1477-1492.	4.7	64
28	Kidney transplantation from triple-knockout pigs expressing multiple human proteins in cynomolgus macaques. <i>American Journal of Transplantation</i> , 2022, 22, 46-57.	4.7	64
29	Suppressive Regulatory T Cell Activity Is Potentiated by Glycogen Synthase Kinase 3Î² Inhibition. <i>Journal of Biological Chemistry</i> , 2010, 285, 32852-32859.	3.4	47
30	Discovery and Validation of a Urinary Exosome mRNA Signature for the Diagnosis of Human Kidney Transplant Rejection. <i>Journal of the American Society of Nephrology: JASN</i> , 2021, 32, 994-1004.	6.1	44
31	Making Every Liver Count. <i>Annals of Surgery</i> , 2020, 272, 397-401.	4.2	43
32	A Multicenter Study: North American Islet Donor Score in Donor Pancreas Selection for Human Islet Isolation for Transplantation. <i>Cell Transplantation</i> , 2016, 25, 1515-1523.	2.5	42
33	Synthetic hemoglobin-based oxygen carriers are an acceptable alternative for packed red blood cells in normothermic kidney perfusion. <i>American Journal of Transplantation</i> , 2019, 19, 2814-2824.	4.7	40
34	The dawn of liver perfusion machines. <i>Current Opinion in Organ Transplantation</i> , 2018, 23, 151-161.	1.6	36
35	The demise of islet allotransplantation in the United States: A call for an urgent regulatory update. <i>American Journal of Transplantation</i> , 2021, 21, 1365-1375.	4.7	33
36	Blockade of GITR-GITRL interaction maintains Treg function to prolong allograft survival. <i>European Journal of Immunology</i> , 2010, 40, 1369-1374.	2.9	32

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37	Executive Summary of IPITA-TTS Opinion Leaders Report on the Future of $\beta$ -Cell Replacement. Transplantation, 2016, 100, e25-e31.	1.0	32
38	FasL microgels induce immune acceptance of islet allografts in nonhuman primates. Science Advances, 2022, 8, eabm9881.	10.3	32
39	Antibody-Induced Transplantation Tolerance That Is Dependent on Thymus-Derived Regulatory T Cells. Journal of Immunology, 2006, 176, 2799-2807.	0.8	31
40	Subzero non-frozen preservation of human livers in the supercooled state. Nature Protocols, 2020, 15, 2024-2040.	12.0	31
41	Effect of tolerance versus chronic immunosuppression protocols on the quality of life of kidney transplant recipients. JCI Insight, 2016, 1, .	5.0	29
42	Inhibition of ICAM-1/LFA-1 Interactions Prevents B-Cell-Dependent Anti-CD45RB-Induced Transplantation Tolerance. Transplantation, 2008, 85, 675-680.	1.0	27
43	Heterogeneity of SOX9 and HNF1 $\beta$ in Pancreatic Ducts Is Dynamic. Stem Cell Reports, 2018, 10, 725-738.	4.8	27
44	Current state of organ transplant tolerance. Current Opinion in Organ Transplantation, 2019, 24, 441-450.	1.6	27
45	Measuring success in pig to non-human-primate renal xenotransplantation: Systematic review and comparative outcomes analysis of 1051 life-sustaining NHP renal allo- and xeno-transplants. American Journal of Transplantation, 2022, 22, 1527-1536.	4.7	27
46	IL-21 Is an Antitolerogenic Cytokine of the Late-Phase Alloimmune Response. Diabetes, 2011, 60, 3223-3234.	0.6	26
47	Current status of pig liver xenotransplantation. International Journal of Surgery, 2015, 23, 240-246.	2.7	25
48	The efficacy of HBOCa $\alpha$ 201 in ex situ gradual rewarming kidney perfusion in a rat model. Artificial Organs, 2020, 44, 81-90.	1.9	25
49	Hepatic Retransplant. Clinics in Liver Disease, 2014, 18, 731-751.	2.1	24
50	Role of B cells in tolerance induction. Current Opinion in Organ Transplantation, 2015, 20, 369-375.	1.6	23
51	TGF $\beta$ $\alpha$ 2 secreting regulatory B cells: unsung players in immune regulation. Clinical and Translational Immunology, 2021, 10, e1270.	3.8	23
52	GITR Blockade Facilitates Treg Mediated Allograft Survival. Transplantation, 2009, 88, 1169-1177.	1.0	22
53	Market Competition and Density in Liver Transplantation: Relationship to Volume and Outcomes. Journal of the American College of Surgeons, 2015, 221, 524-531.	0.5	22
54	Readmission following liver transplantation: an unwanted occurrence but an opportunity to act. Hpb, 2016, 18, 936-942.	0.3	22

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55	Islet Cell Transplantation: Update on Current Clinical Trials. <i>Current Transplantation Reports</i> , 2016, 3, 254-263.	2.0	21
56	Differential effects of 2-deoxy-D-glucose on in vitro expanded human regulatory T cell subsets. <i>PLoS ONE</i> , 2019, 14, e0217761.	2.5	21
57	Testing of microencapsulated porcine hepatocytes in a new model of fulminant liver failure in baboons. <i>Xenotransplantation</i> , 2017, 24, e12297.	2.8	20
58	Evolving utilization of donation after circulatory death livers in liver transplantation: The day of DCD has come. <i>Clinical Transplantation</i> , 2021, 35, e14211.	1.6	20
59	Functional Human Liver Preservation and Recovery by Means of Subnormothermic Machine Perfusion. <i>Journal of Visualized Experiments</i> , 2015, , .	0.3	18
60	Microfluidic mazes to characterize T-cell exploration patterns following activation in vitro. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 1423-1431.	1.3	18
61	Machine Perfusion of the Liver: A Review of Clinical Trials. <i>Frontiers in Surgery</i> , 2021, 8, 625394.	1.4	18
62	<em>Ex Situ</em> Normothermic Machine Perfusion of Donor Livers. <i>Journal of Visualized Experiments</i> , 2015, , e52688.	0.3	17
63	Distance is associated with mortality on the waitlist in pediatric liver transplantation. <i>Pediatric Transplantation</i> , 2017, 21, e12842.	1.0	17
64	Preliminary Studies of the Impact of CXCL12 on the Foreign Body Reaction to Pancreatic Islets Microencapsulated in Alginate in Nonhuman Primates. <i>Transplantation Direct</i> , 2019, 5, e447.	1.6	17
65	Bifunctional Small Molecules Enhance Neutrophil Activities Against <i>Aspergillus fumigatus</i> in vivo and in vitro. <i>Frontiers in Immunology</i> , 2019, 10, 644.	4.8	16
66	Split-Liver Ex Situ Machine Perfusion: A Novel Technique for Studying Organ Preservation and Therapeutic Interventions. <i>Journal of Clinical Medicine</i> , 2020, 9, 269.	2.4	16
67	Metabolic and lipidomic profiling of steatotic human livers during ex situ normothermic machine perfusion guides resuscitation strategies. <i>PLoS ONE</i> , 2020, 15, e0228011.	2.5	16
68	The IGFBP3/TMEM219 pathway regulates beta cell homeostasis. <i>Nature Communications</i> , 2022, 13, 684.	12.8	16
69	Oxygenated UW Solution Decreases ATP Decay and Improves Survival After Transplantation of DCD Liver Grafts. <i>Transplantation</i> , 2019, 103, 363-370.	1.0	14
70	Thrombolytic Therapy During ex-vivo Normothermic Machine Perfusion of Human Livers Reduces Peribiliary Vascular Plexus Injury. <i>Frontiers in Surgery</i> , 2021, 8, 644859.	1.4	14
71	Inotuzumab Ozogamicin Murine Analog-Mediated B-Cell Depletion Reduces Anti-islet Allo- and Autoimmune Responses. <i>Diabetes</i> , 2012, 61, 155-165.	0.6	13
72	The Quest for Transplantation Tolerance: Have We Finally Sipped from the Cup?. <i>Science Translational Medicine</i> , 2012, 4, 124fs5.	12.4	13

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73	Defining outcomes for beta cell replacement therapy: a work in progress. <i>Diabetologia</i> , 2018, 61, 1273-1276.	6.3	13
74	Pediatric kidney transplantation and mortality: Distance to transplant center matters. <i>Pediatric Transplantation</i> , 2018, 22, e13120.	1.0	13
75	Regulatory B cells require antigen recognition for effective allograft tolerance induction. <i>American Journal of Transplantation</i> , 2020, 20, 977-987.	4.7	13
76	Trends in the Management and Outcomes of Kidney Transplantation for Autosomal Dominant Polycystic Kidney Disease. <i>Journal of Transplantation</i> , 2014, 2014, 1-7.	0.5	12
77	Immunogenicity of $\beta$ -cells for autologous transplantation in type 1 diabetes. <i>Pharmacological Research</i> , 2015, 98, 60-68.	7.1	11
78	Endothelial Dysfunction in Steatotic Human Donor Livers: A Pilot Study of the Underlying Mechanism During Subnormothermic Machine Perfusion. <i>Transplantation Direct</i> , 2018, 4, e345.	1.6	11
79	Cell release during perfusion reflects cold ischemic injury in rat livers. <i>Scientific Reports</i> , 2020, 10, 1102.	3.3	11
80	The Race to Liver Transplantation: A Comparison of Patients With and Without Hepatocellular Carcinoma from Listing to Post-Transplantation. <i>Journal of the American College of Surgeons</i> , 2015, 220, 1001-1007.	0.5	10
81	Warming Up to Cold Perfusion. <i>New England Journal of Medicine</i> , 2021, 384, 1458-1459.	27.0	10
82	TIM4 Regulates the Anti-Islet Th2 Alloimmune Response. <i>Cell Transplantation</i> , 2015, 24, 1599-1614.	2.5	9
83	Rehabilitation of Discarded Steatotic Livers Using Ex Situ Normothermic Machine Perfusion: A Future Source of Livers for Transplantation. <i>Liver Transplantation</i> , 2019, 25, 991-992.	2.4	9
84	Liver Transplantation for Recurrent Cholangitis From Von Meyenburg Complexes. <i>Transplantation Direct</i> , 2019, 5, e428.	1.6	9
85	Hepatectomy for Solitary Hepatocellular Carcinoma: Resection Margin Width Does Not Predict Survival. <i>Journal of Gastrointestinal Surgery</i> , 2021, 25, 1727-1735.	1.7	9
86	Mechanisms of regulatory T cell counter-regulation by innate immunity. <i>Transplantation Reviews</i> , 2013, 27, 61-64.	2.9	8
87	Renal allograft thrombosis after living donor transplantation: risk factors and obstacles to retransplantation. <i>Clinical Transplantation</i> , 2016, 30, 864-871.	1.6	8
88	Bilateral native nephrectomy reduces systemic oxalate level after combined liver-kidney transplant: A case report. <i>Pediatric Transplantation</i> , 2017, 21, e12901.	1.0	8
89	Generation of Adaptive Regulatory T Cells by Alloantigen Is Required for Some But Not All Transplant Tolerance Protocols. <i>Transplantation</i> , 2011, 91, 707-713.	1.0	8
90	Duplicated Inferior Vena Cava—Something to Consider in the Evaluation of a Living Donor Renal Transplant. <i>Dialysis and Transplantation</i> , 2009, 38, 420-422.	0.2	7

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91	Profiling of mRNA of interstitial fibrosis and tubular atrophy with subclinical inflammation in recipients after kidney transplantation. <i>Aging</i> , 2019, 11, 5215-5231.	3.1	7
92	Normothermic Machine Perfusion Increases Donor Liver Use. <i>JAMA Surgery</i> , 2022, 157, 742.	4.3	7
93	Hepatocellular Carcinoma in Transplantable Child-Pugh A Cirrhotics: Should Cost Affect Resection vs Transplantation?. <i>Journal of Gastrointestinal Surgery</i> , 2019, 23, 1135-1142.	1.7	6
94	Regulatory B Cells in Autoimmune Diabetes. <i>Journal of Immunology</i> , 2021, 206, 1117-1125.	0.8	6
95	An Unbiased Machine Learning Exploration Reveals Gene Sets Predictive of Allograft Tolerance After Kidney Transplantation. <i>Frontiers in Immunology</i> , 2021, 12, 695806.	4.8	6
96	Properties of regulatory B cells regulating B cell targets. <i>American Journal of Transplantation</i> , 2021, 21, 3847-3857.	4.7	6
97	Kidney xenotransplantation in a brain-dead donor: Glass half-full or half-empty?. <i>American Journal of Transplantation</i> , 2022, , .	4.7	6
98	Elevated Levels of Interferon- $\gamma$ Production by Memory T Cells Do Not Promote Transplant Tolerance Resistance in Aged Recipients. <i>PLoS ONE</i> , 2013, 8, e82856.	2.5	5
99	The Heterogenous Effect of COVID-19 on Liver Transplantation Activity and Waitlist Mortality in the United States. <i>Frontiers in Surgery</i> , 2021, 8, 669129.	1.4	5
100	Intrapleural transplantation of allogeneic pancreatic islets achieves glycemic control in a diabetic non-human primate. <i>American Journal of Transplantation</i> , 2022, 22, 966-972.	4.7	5
101	Expert Opinion Special Feature: Patient Selection for Initial Clinical Trials of Pig Organ Transplantation. <i>Transplantation</i> , 2022, 106, 1720-1723.	1.0	5
102	Ex vivo generation of regulatory T cells from liver transplant recipients using costimulation blockade. <i>American Journal of Transplantation</i> , 2021, , .	4.7	4
103	Twenty-four hour ex-vivo normothermic machine perfusion in rat livers. <i>Technology</i> , 2020, 08, 27-36.	1.4	4
104	A reliable scoring system after major liver resection in mice. <i>Journal of Surgical Research</i> , 2016, 204, 75-82.	1.6	3
105	Relaxing liver ischemia reperfusion injury down 1 notch. <i>American Journal of Transplantation</i> , 2018, 18, 1587-1588.	4.7	3
106	Posttransplant Outcomes in Older Patients With Hepatocellular Carcinoma Are Driven by Non-Hepatocellular Carcinoma Factors. <i>Liver Transplantation</i> , 2021, 27, 684-698.	2.4	3
107	Socioeconomic gradients between locally transplanted and exported liver donors and recipients. <i>Liver Transplantation</i> , 2016, 22, 557-558.	2.4	2
108	A novel model for ex situ reperfusion of the human liver following subnormothermic machine perfusion. <i>Technology</i> , 2017, 05, 196-200.	1.4	2

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109	Trapped Chromatin Fibers Damage Flowing Red Blood Cells. <i>Advanced Biology</i> , 2018, 2, 1800040.	3.0	2
110	New Trends in Immunosuppression for Liver Transplantation: Minimization, Avoidance, and Withdrawal. , 2018, , 207-222.		2
111	Interleukin-27 in liver xenotransplantation: A rational target to mitigate ischemia reperfusion injury and increase xenograft survival. <i>Transplantation Reviews</i> , 2022, 36, 100674.	2.9	2
112	Normothermic ex vivo liver perfusion: platform for liver graft assessment and therapeutic modification. <i>Organogenesis</i> , 2018, 14, 169-171.	1.2	1
113	Rap GTPase Interactor: A Potential Marker for Cancer Prognosis Following Kidney Transplantation. <i>Frontiers in Oncology</i> , 2019, 9, 737.	2.8	1
114	Detection of alloreactive T cells from cryopreserved human peripheral blood mononuclear cells. <i>Journal of Immunological Methods</i> , 2021, 491, 112987.	1.4	1
115	The effect of blood cells retained in rat livers during static cold storage on viability outcomes during normothermic machine perfusion. <i>Scientific Reports</i> , 2021, 11, 23128.	3.3	1
116	Reply to "Letter to the editor in response to: Measuring success in pig to non-human primate renal xenotransplantation: Systematic review and comparative outcomes analysis of 1051 life-sustaining NHP renal allo- and xenotransplants" American Journal of Transplantation, 2022, , .	4.7	1
117	Transplantation in the Age of Precision Medicine: The Emerging Field of Treg Therapy. <i>Seminars in Nephrology</i> , 2022, 42, 76-85.	1.6	1
118	The Beginnings of a Transplant Revolution. <i>Annals of Surgery</i> , 2017, 265, e3.	4.2	0
119	Commentary on Nurse Telephonic Triage Service for After-hour Patient Calls in Neurosurgery. <i>Annals of Surgery</i> , 2018, 267, e69.	4.2	0
120	Progress toward islet transplantation tolerance. , 2020, , 727-739.		0
121	Liver transplantation with suprahepatic caval anastomosis including inferior vena cava stent. <i>Transplantation Reports</i> , 2020, 5, 100062.	0.4	0
122	Influence of donor and recipient hepatitis B virus infection on long-term outcomes after kidney transplantation. <i>Clinical Transplantation</i> , 2021, 35, e14466.	1.6	0
123	The impact of race and comorbid conditions on adult liver transplant outcomes in obese recipients. <i>Transplant International</i> , 2021, 34, 2834-2845.	1.6	0
124	Hepatic vascular remodelling in a patient with dyskeratosis congenita. <i>Histopathology</i> , 2021, , .	2.9	0
125	Heterogeneity in transplant center responses to the minimum acceptance criteria across UNOS regions. <i>Clinical Transplantation</i> , 2021, , e14551.	1.6	0