

# Katsuhiko Ohuchi

## List of Publications by Year in descending order

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39  
papers

914  
citations

706676

14  
h-index

591227

27  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1230  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lung thermography during the initial reperfusion period to assess pulmonary function in cellular ex vivo lung perfusion. <i>Artificial Organs</i> , 2022, 46, 1522-1532.	1.0	3
2	Optical oxygen saturation imaging in cellular ex vivo lung perfusion to assess lobular pulmonary function. <i>Biomedical Optics Express</i> , 2022, 13, 328.	1.5	3
3	Evaluation of real-time thrombus detection method in a magnetically levitated centrifugal blood pump using a porcine left ventricular assist circulation model. <i>Artificial Organs</i> , 2021, 45, 726-735.	1.0	4
4	Novel application of indocyanine green fluorescence imaging for real-time detection of thrombus in a membrane oxygenator. <i>Artificial Organs</i> , 2021, 45, 1173-1182.	1.0	4
5	Monitoring of biological information with magnetic bearing in blood pump and its application for treatment. <i>The Proceedings of the Dynamics &amp; Design Conference</i> , 2021, 2021, 542.	0.0	0
6	Development of a Novel Heart Positioner for Minimally Invasive Coronary Surgery. <i>Annals of Thoracic Surgery</i> , 2020, 110, 1746-1750.	0.7	1
7	Design of Mixed Flow Blood Pump as Infant Use by Numerical Analysis of Internal Flow. <i>The Proceedings of Ibaraki District Conference</i> , 2020, 2020.28, 508.	0.0	0
8	Measurement of Internal Flow of an Axial Flow Blood Pump with Eccentric Drive by Using PIV and Estimation of Thrombus Formation Area in the Flow. <i>The Proceedings of Ibaraki District Conference</i> , 2020, 2020.28, 507.	0.0	0
9	Intelligent maglev system and its medical application. <i>The Proceedings of the Symposium on the Motion and Vibration Control</i> , 2019, 2019.16, B302.	0.0	0
10	Clarification of Internal Flow Characteristics of an Axial Flow Blood Pump with Eccentric Drive. <i>The Proceedings of the Fluids Engineering Conference</i> , 2019, 2019, IS-41.	0.0	0
11	Development of a real-time and quantitative thrombus sensor for an extracorporeal centrifugal blood pump by near-infrared light. <i>Biomedical Optics Express</i> , 2018, 9, 190.	1.5	10
12	Development of real-time and quantitative monitoring of thrombus formation in an extracorporeal centrifugal blood pump. , 2018, , .		0
13	Optical Dynamic Analysis of Thrombus Inside a Centrifugal Blood Pump During Extracorporeal Mechanical Circulatory Support in a Porcine Model. <i>Artificial Organs</i> , 2017, 41, 893-903.	1.0	14
14	Surgical energy device using steam jet for robotic assisted surgery. , 2015, 2015, 6872-5.		2
15	Transfusion-Free Neonatal Cardiopulmonary Bypass Using a TinyPump. <i>Annals of Thoracic Surgery</i> , 2010, 90, 1615-1621.	0.7	5
16	Mechanical Damage of Red Blood Cells by Rotary Blood Pumps: Selective Destruction of Aged Red Blood Cells and Subhemolytic Trauma. <i>Artificial Organs</i> , 2008, 32, 785-791.	1.0	64
17	Efficacy of a Miniature Centrifugal Rotary Pump (TinyPump) for Transfusion-Free Cardiopulmonary Bypass in Neonatal Piglets. <i>ASAIO Journal</i> , 2007, 53, 675-679.	0.9	11
18	Deformability of human red blood cells exposed to a uniform shear stress as measured by a cyclically reversing shear flow generator. <i>Physiological Measurement</i> , 2007, 28, 531-545.	1.2	21

#	ARTICLE	IF	CITATIONS
19	The Re-design at the Transformer Portion of Transcutaneous Energy Transmission System for All Implantable Devices. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1035-8.	0.5	4
20	Feasibility of a TinyPump System for Pediatric CPB, ECMO, and Circulatory Assistance: Hydrodynamic Performances of the Modified Pump Housing for Implantable TinyPump. ASAIO Journal, 2007, 53, 742-746.	0.9	7
21	Deformability of Red Blood Cells and Its Relation to Blood Trauma in Rotary Blood Pumps. Artificial Organs, 2007, 31, 352-358.	1.0	44
22	Feasibility of a Tiny Centrifugal Blood Pump (TinyPump) for Pediatric Extracorporeal Circulatory Support. Artificial Organs, 2007, 31, 408-412.	1.0	16
23	A model analysis of electrophysiological modulation by cardiac mechano-electric feedback. Journal of Life Support Engineering, 2007, 19, 106-106.	0.1	0
24	Computational Fluid Dynamics Analysis of the Pediatric Tiny Centrifugal Blood Pump (TinyPump). Artificial Organs, 2006, 30, 392-399.	1.0	35
25	Hemolytic Performance of a MagLev Disposable Rotary Blood Pump (MedTech Dispo): Effects of MagLev Gap Clearance and Surface Roughness. Artificial Organs, 2006, 30, 949-954.	1.0	16
26	Currently available ventricular-assist devices: capabilities, limitations and future perspectives. Expert Review of Medical Devices, 2006, 3, 195-205.	1.4	4
27	Feasibility of a Miniature Centrifugal Rotary Blood Pump for Low-Flow Circulation in Children and Infants. ASAIO Journal, 2005, 51, 557-562.	0.9	22
28	Disposable Magnetically Levitated Centrifugal Blood Pump: Design and In Vitro Performance. Artificial Organs, 2005, 29, 520-526.	1.0	21
29	Mechanical circulatory support devices (MCSD) in Japan: current status and future directions. Journal of Artificial Organs, 2005, 8, 13-27.	0.4	34
30	Segmented polyurethane modified by photopolymerization and cross-linking with 2-methacryloyloxyethyl phosphorylcholine polymer for blood-contacting surfaces of ventricular assist devices. Journal of Artificial Organs, 2005, 8, 237-244.	0.4	16
31	Magnetically Suspended Centrifugal Blood Pump With a Radial Magnetic Driver. ASAIO Journal, 2005, 51, 60-64.	0.9	29
32	Biocompatible Inkjet Printing Technique for Designed Seeding of Individual Living Cells. Tissue Engineering, 2005, 11, 1658-1666.	4.9	477
33	Totally Implantable Permanent Artificial Hearts for End-Stage Cardiac Patients. The Proceedings of Conference of Kanto Branch, 2003, 2003.9, 99-100.	0.0	0
34	One Piece Ultracompact Totally Implantable Electromechanical Total Artificial Heart for Permanent Use. ASAIO Journal, 2002, 48, 538-545.	0.9	18
35	A dynamic action potential model analysis of shock-induced aftereffects in ventricular muscle by reversible breakdown of cell membrane. IEEE Transactions on Biomedical Engineering, 2002, 49, 18-30.	2.5	25
36	Development of A Totally Implantable Electro-Mechanical Left Ventricular Assist Device. The Proceedings of Ibaraki District Conference, 2002, 2002, 187-188.	0.0	0

#	ARTICLE	IF	CITATIONS
37	Analysis of the relationship between left ventricular pressure and motor current for evaluation of native cardiac function during left ventricular support with a centrifugal blood pump. Journal of Artificial Organs, 2001, 4, 269-272.	0.4	2
38	705 Development of an Implantable Electromechanical Ventricular Assist System. The Proceedings of Ibaraki District Conference, 2001, 2001, 175-176.	0.0	0
39	907 Development of Totally Implantable Electromechanical Ventricular Assist Device. The Proceedings of Ibaraki District Conference, 2000, 2000, 253-254.	0.0	0