Katsuhiro Ohuchi

List of Publications by Year
in descending order

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39	914	623734	526287
papers	citations	14 h-index	27 g-index

40	40	40	1086
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lung thermography during the initial reperfusion period to assess pulmonary function in cellular ex vivo lung perfusion. Artificial Organs, 2022, 46, 1522-1532.	1.9	3
2	Optical oxygen saturation imaging in cellular ex vivo lung perfusion to assess lobular pulmonary function. Biomedical Optics Express, 2022, 13, 328.	2.9	3
3	Evaluation of realâ€time thrombus detection method in a magnetically levitated centrifugal blood pump using a porcine left ventricular assist circulation model. Artificial Organs, 2021, 45, 726-735.	1.9	4
4	Novel application of indocyanine green fluorescence imaging for realâ€time detection of thrombus in a membrane oxygenator. Artificial Organs, 2021, 45, 1173-1182.	1.9	4
5	Monitoring of biological information with magnetic bearing in blood pump and its application for treatment. The Proceedings of the Dynamics & Design Conference, 2021, 2021, 542.	0.0	0
6	Development of a Novel Heart Positioner for Minimally Invasive Coronary Surgery. Annals of Thoracic Surgery, 2020, 110, 1746-1750.	1.3	1
7	Design of Mixed Flow Blood Pump as Infant Use by Numerical Analysis of Internal Flow. The Proceedings of Ibaraki District Conference, 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. The Proceedings of Ibaraki District Conference, 2020, 2020.28, 507.	0.0	0
9	Intelligent maglev system and its medical application. The Proceedings of the Symposium on the Motion and Vibration Control, 2019, 2019.16, B302.	0.0	0
10	Clarification of Internal Flow Characteristics of an Axial Flow Blood Pump with Eccentric Drive. The Proceedings of the Fluids Engineering Conference, 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. Biomedical Optics Express, 2018, 9, 190.	2.9	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. Artificial Organs, 2017, 41, 893-903.	1.9	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. Annals of Thoracic Surgery, 2010, 90, 1615-1621.	1.3	5
16	Mechanical Damage of Red Blood Cells by Rotary Blood Pumps: Selective Destruction of Aged Red Blood Cells and Subhemolytic Trauma. Artificial Organs, 2008, 32, 785-791.	1.9	64
17	Efficacy of a Miniature Centrifugal Rotary Pump (TinyPump) for Transfusion-Free Cardiopulmonary Bypass in Neonatal Piglets. ASAIO Journal, 2007, 53, 675-679.	1.6	11
18	Deformability of human red blood cells exposed to a uniform shear stress as measured by a cyclically reversing shear flow generator. Physiological Measurement, 2007, 28, 531-545.	2.1	21

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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.	1.6	7
21	Deformability of Red Blood Cells and Its Relation to Blood Trauma in Rotary Blood Pumps. Artificial Organs, 2007, 31, 352-358.	1.9	44
22	Feasibility of a Tiny Centrifugal Blood Pump (TinyPump) for Pediatric Extracorporeal Circulatory Support. Artificial Organs, 2007, 31, 408-412.	1.9	16
23	A model analysis of electrophysiological modulation by cardiac mechano-electric feedback. Journal of Life Support Engineering, 2007, 19, 106-106.	0.0	0
24	Computational Fluid Dynamics Analysis of the Pediatric Tiny Centrifugal Blood Pump (TinyPump). Artificial Organs, 2006, 30, 392-399.	1.9	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.	1.9	16
26	Currently available ventricular-assist devices: capabilities, limitations and future perspectives. Expert Review of Medical Devices, 2006, 3, 195-205.	2.8	4
27	Feasibility of a Miniature Centrifugal Rotary Blood Pump for Low-Flow Circulation in Children and Infants. ASAIO Journal, 2005, 51, 557-562.	1.6	22
28	Disposable Magnetically Levitated Centrifugal Blood Pump: Design and In Vitro Performance. Artificial Organs, 2005, 29, 520-526.	1.9	21
29	Mechanical circulatory support devices (MCSD) in Japan: current status and future directions. Journal of Artificial Organs, 2005, 8, 13-27.	0.9	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.	0.9	16
31	Magnetically Suspended Centrifugal Blood Pump With a Radial Magnetic Driver. ASAIO Journal, 2005, 51, 60-64.	1.6	29
32	Biocompatible Inkjet Printing Technique for Designed Seeding of Individual Living Cells. Tissue Engineering, 2005, 11, 1658-1666.	4.6	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.	1.6	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.	4.2	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.	0.9	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