

Tomohiro Kawaguchi

List of Publications by Year in descending order

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99
papers

2,562
citations

257450

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all docs

101
docs citations

101
times ranked

4642
citing authors

#	ARTICLE	IF	CITATIONS
1	Epidermal Growth Factor Receptor Activation in Glioblastoma through Novel Missense Mutations in the Extracellular Domain. <i>PLoS Medicine</i> , 2006, 3, e485.	8.4	298
2	Contribution of Notch signaling activation to human glioblastoma multiforme. <i>Journal of Neurosurgery</i> , 2007, 106, 417-427.	1.6	181
3	Autoinducers extracted from microbial mats reveal a surprising diversity of <i>N</i> -acylhomoserine lactones (AHLs) and abundance changes that may relate to diel pH. <i>Environmental Microbiology</i> , 2009, 11, 409-420.	3.8	144
4	Determining the specific microbial populations and their spatial distribution within the stromatolite ecosystem of Shark Bay. <i>ISME Journal</i> , 2009, 3, 383-396.	9.8	125
5	Impact of gross total resection in patients with WHO grade III glioma harboring the IDH 1/2 mutation without the 1p/19q co-deletion. <i>Journal of Neuro-Oncology</i> , 2016, 129, 505-514.	2.9	116
6	Convection-enhanced delivery of nanoliposomal CPT-11 (irinotecan) and PEGylated liposomal doxorubicin (Doxil) in rodent intracranial brain tumor xenografts. <i>Neuro-Oncology</i> , 2007, 9, 393-403.	1.2	102
7	c-Fos suppresses systemic inflammatory response to endotoxin. <i>International Immunology</i> , 2006, 18, 671-677.	4.0	93
8	The relationship among p53 oligomer formation, structure and transcriptional activity using a comprehensive missense mutation library. <i>Oncogene</i> , 2005, 24, 6976-6981.	5.9	89
9	Macrolide antibiotics block autophagy flux and sensitize to bortezomib via endoplasmic reticulum stress-mediated CHOP induction in myeloma cells. <i>International Journal of Oncology</i> , 2013, 42, 1541-1550.	3.3	87
10	Rapid Screening of Quorum-Sensing Signal <i>N</i> -Acyl Homoserine Lactones by an In Vitro Cell-Free Assay. <i>Applied and Environmental Microbiology</i> , 2008, 74, 3667-3671.	3.1	81
11	ISOLATION AND BIOCHEMICAL CHARACTERIZATION OF EXTRACELLULAR POLYMERIC SECRETIONS (EPS) FROM MODERN SOFT MARINE STROMATOLITES (BAHAMAS) AND ITS INHIBITORY EFFECT ON <i>CACO3</i> PRECIPITATION. <i>Preparative Biochemistry and Biotechnology</i> , 2002, 32, 51-63.	1.9	74
12	Distinctive flow pattern of wall shear stress and oscillatory shear index: similarity and dissimilarity in ruptured and unruptured cerebral aneurysm blebs. <i>Journal of Neurosurgery</i> , 2012, 117, 774-780.	1.6	69
13	Convection-enhanced delivery of a topoisomerase I inhibitor (nanoliposomal topotecan) and a topoisomerase II inhibitor (pegylated liposomal doxorubicin) in intracranial brain tumor xenografts. <i>Neuro-Oncology</i> , 2007, 9, 20-28.	1.2	65
14	Association between molecular alterations and tumor location and MRI characteristics in anaplastic gliomas. <i>Brain Tumor Pathology</i> , 2015, 32, 99-104.	1.7	65
15	Combined treatment with bortezomib plus bafilomycin A1 enhances the cytotoxic effect and induces endoplasmic reticulum stress in U266 myeloma cells: Crosstalk among proteasome, autophagy-lysosome and ER stress. <i>International Journal of Oncology</i> , 2011, 38, 643-54.	3.3	63
16	The PTEN/Akt Pathway Dictates the Direct β -23-Dependent Growth-Inhibitory Action of an Active Fragment of Tumstatin in Glioma Cells In vitro and In vivo. <i>Cancer Research</i> , 2006, 66, 11331-11340.	0.9	57
17	Sediment properties influencing upwelling spectral reflectance signatures: The "biofilm gel effect". <i>Limnology and Oceanography</i> , 2003, 48, 431-443.	3.1	53
18	Silver Nanocolloids Disrupt Medaka Embryogenesis through Vital Gene Expressions. <i>Environmental Science & Technology</i> , 2012, 46, 6278-6287.	10.0	52

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19	The Mre11/Rad50/Nbs1 complex interacts with the mismatch repair system and contributes to temozolomide-induced G2 arrest and cytotoxicity. <i>Molecular Cancer Therapeutics</i> , 2006, 5, 2757-2766.	4.1	46
20	Intracranial Microenvironment Reveals Independent Opposing Functions of Host β 23 Expression on Glioma Growth and Angiogenesis. <i>Journal of Biological Chemistry</i> , 2006, 281, 37256-37264.	3.4	35
21	Fos Proteins Suppress Dextran Sulfate Sodium-Induced Colitis through Inhibition of NF- κ B. <i>Journal of Immunology</i> , 2010, 184, 1014-1021.	0.8	28
22	Effect of surface preparation on the bond strength of heat-polymerized denture base resin to commercially pure titanium and cobalt-chromium alloy. <i>Dental Materials Journal</i> , 2011, 30, 143-150.	1.8	26
23	Influence of molecular weight of polymethyl(methacrylate) beads on the properties and structure of cross-linked denture base polymer. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 1846-1851.	3.1	26
24	In Situ Microspatial Imaging Using Two-Photon and Confocal Laser Scanning Microscopy of Bacteria and Extracellular Polymeric Secretions (EPS) Within Marine Stromatolites. <i>Marine Biotechnology</i> , 2002, 4, 127-131.	2.4	24
25	Effect of heat treatment of polymethyl methacrylate powder on mechanical properties of denture base resin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 39, 73-78.	3.1	24
26	Mechanical properties of denture base resin cross-linked with methacrylated dendrimer. <i>Dental Materials</i> , 2011, 27, 755-761.	3.5	23
27	Practical surgical indicators to identify candidates for radical resection of insulo-opercular gliomas. <i>Journal of Neurosurgery</i> , 2014, 121, 1124-1132.	1.6	23
28	Ectopic recurrence of craniopharyngioma. <i>Journal of Clinical Neuroscience</i> , 2005, 12, 307-309.	1.5	22
29	Effect of long-term water immersion or thermal shock on mechanical properties of high-impact acrylic denture base resins. <i>Dental Materials Journal</i> , 2016, 35, 204-209.	1.8	22
30	Outcome and mid-term prognosis after maximum and radical removal of craniopharyngiomas with the priority to the extended transsphenoidal approach—A single center experience. <i>Clinical Neurology and Neurosurgery</i> , 2014, 125, 41-46.	1.4	20
31	Retinal Nerve Fiber Layer Thickness Measurement for Predicting Visual Outcome after Transsphenoidal Surgery: Optic Disc Atrophy Is Not the Deciding Indicator. <i>World Neurosurgery</i> , 2019, 127, e427-e435.	1.3	18
32	Pilocytic Astrocytoma With Histological Malignant Features Without Previous Radiation Therapy -Case Report-. <i>Neurologia Medico-Chirurgica</i> , 2011, 51, 144-147.	2.2	17
33	Subarachnoid Hemorrhage After an Ischemic Attack Due to a Bacterial Middle Cerebral Artery Dissecting Aneurysm: Case Report and Literature Review. <i>Neurologia Medico-Chirurgica</i> , 2014, 54, 196-200.	2.2	16
34	Effect of Reinforcement on the Flexural Properties of Injection-Molded Thermoplastic Denture Base Resins. <i>Journal of Prosthodontics</i> , 2017, 26, 302-308.	3.7	16
35	Malignant clinical features of anaplastic gliomas without IDH mutation. <i>Neuro-Oncology</i> , 2015, 17, 136-144.	1.2	16
36	Improvement of Co3O4 Nanoparticle Synthesis in Apoferritin Cavity by Outer Surface PEGylation. <i>Bulletin of the Chemical Society of Japan</i> , 2008, 81, 1669-1674.	3.2	15

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37	Syringomyelia with obstructive hydrocephalus at the foramina of Luschka and Magendie successfully treated by endoscopic third ventriculostomy. <i>World Neurosurgery</i> , 2009, 71, 349-352.	1.3	15
38	Ventricle wall dissection and vascular preservation with the pulsed water jet device: novel tissue dissector for flexible neuroendoscopic surgery. <i>Journal of Neurosurgery</i> , 2016, 124, 817-822.	1.6	15
39	Cardiovascular and autonomic nervous functions during acclimatization to hypoxia in conscious rats. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2005, 117, 97-104.	2.8	14
40	Reaction of <i>N</i> -Acylhomoserine Lactones with Hydroxyl Radicals: Rates, Products, and Effects on Signaling Activity. <i>Environmental Science & Technology</i> , 2010, 44, 7465-7469.	10.0	14
41	Early detection of venous thromboembolism in patients with neuroepithelial tumor: efficacy of screening with serum d-dimer measurements and Doppler ultrasonography. <i>Journal of Neuro-Oncology</i> , 2011, 101, 495-504.	2.9	14
42	201Tl-SPECT and 1H-MRS study of benign lateral ventricle tumors: differential diagnosis of subependymoma. <i>Neurosurgical Review</i> , 2005, 28, 96-103.	2.4	13
43	Effect of cellulose nanofiber content on flexural properties of a model, thermoplastic, injection-molded, polymethyl methacrylate denture base material. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 102, 103513.	3.1	13
44	Development of a microplate-based fluorescence immunoassay using quantum dot streptavidin conjugates for enumeration of putative marine bacteria, <i>Alteromonas</i> sp., associated with a benthic harpacticoid copepod. <i>Journal of Microbiological Methods</i> , 2008, 75, 441-444.	1.6	12
45	Logarithmic decrease of serum alpha-fetoprotein or human chorionic gonadotropin in response to chemotherapy can distinguish a subgroup with better prognosis among highly malignant intracranial non-germinomatous germ cell tumors. <i>Journal of Neuro-Oncology</i> , 2011, 104, 779-787.	2.9	12
46	Involvement of endoplasmic reticulum stress-mediated CHOP (GADD153) induction in the cytotoxicity of 2-aminophenoxazine-3-one in cancer cells. <i>International Journal of Oncology</i> , 2011, 39, 981-8.	3.3	11
47	Convection-enhanced delivery of liposomal doxorubicin in intracranial brain tumor xenografts. <i>Targeted Oncology</i> , 2006, 1, 79-85.	3.6	10
48	The Effect of Subacute Supplementation of Taurine on Spatial Learning and Memory. <i>Experimental Animals</i> , 2009, 58, 175-180.	1.1	10
49	A simple and rapid method for identification of lesions at high risk for the no-reflow phenomenon immediately before elective coronary stent implantation. <i>Heart and Vessels</i> , 2016, 31, 1904-1914.	1.2	10
50	Quantifying CaCO ₃ Microprecipitates Within Developing Surface Mats of Marine Stromatolites Using GIS and Digital Image Analysis. <i>Geomicrobiology Journal</i> , 2004, 21, 491-496.	2.0	9
51	Effect of Surface Preparation on the Failure Load of a Highly Filled Composite Resin Bonded to a Denture Base Resin. <i>Journal of Prosthodontics</i> , 2009, 18, 684-687.	3.7	8
52	Changing Microspatial Patterns of Sulfate-Reducing Microorganisms (SRM) during Cycling of Marine Stromatolite Mats. <i>International Journal of Molecular Sciences</i> , 2014, 15, 850-877.	4.1	8
53	New assessment of endothelial function measured by short time flow-mediated vasodilation: Comparison with conventional flow-mediated vasodilation measurement. <i>International Journal of Cardiology</i> , 2018, 265, 24-29.	1.7	8
54	Clinical Impact of Intraventricular Conduction Abnormalities After Transcatheter Aortic Valve Implantation With Balloon-Expandable Valves. <i>American Journal of Cardiology</i> , 2019, 123, 297-305.	1.6	8

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55	Development of an Indirect Competitive Enzyme-Linked Immunosorbent Assay to Detect Extracellular Polymeric Substances (EPS) Secreted by the Marine Stromatolite-Forming Cyanobacteria, <i>Schizothrix</i> sp.. <i>Journal of Immunoassay and Immunochemistry</i> , 2003, 24, 29-39.	1.1	7
56	Bonding of autopolymerizing acrylic resins to magnetic stainless steel alloys using metal conditioner. <i>Journal of Dentistry</i> , 2008, 36, 138-142.	4.1	7
57	Intracerebroventricular administration of taurine impairs learning and memory in rats. <i>Nutritional Neuroscience</i> , 2012, 15, 70-77.	3.1	7
58	Treatment Results of Glioblastoma During the Last 30 Years in a Single Institute. <i>Neurologia Medico-Chirurgica</i> , 2013, 53, 786-796.	2.2	7
59	The current status of the design of resin-bonded fixed partial dentures, splints and overcastings. <i>Japanese Dental Science Review</i> , 2014, 50, 23-28.	5.1	7
60	A Case of Dural Arteriovenous Fistula Presenting as Acute Subdural Hematoma. <i>Case Reports in Neurology</i> , 2014, 6, 122-125.	0.7	7
61	Perforation of Anterior Mitral Leaflet Due to Mechanical Stimulation Late After Transcatheter Aortic Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , 2016, 9, e233-e234.	2.9	7
62	Macrolide Antibiotics Block Autophagy Flux and Sensitize to Bortezomib Via Endoplasmic Reticulum-Stress-Mediated CHOP Induction in Myeloma Cells. <i>Blood</i> , 2012, 120, 4992-4992.	1.4	7
63	Effect of three metal priming agents on the bond strength of adhesive resin cement to Ag-Zn-Sn-In alloy and component metals. <i>Dental Materials Journal</i> , 2018, 37, 301-307.	1.8	6
64	Application of photostable quantum dots for indirect immunofluorescent detection of specific bacterial serotypes on small marine animals. <i>Nanotechnology</i> , 2008, 19, 235102.	2.6	5
65	Cerebral Arteritis With Extremely Late Onset Secondary to Bacterial Meningitis -Case Report-. <i>Neurologia Medico-Chirurgica</i> , 2011, 51, 302-305.	2.2	5
66	Summary of 15 Years Experience of Awake Surgeries for Neuroepithelial Tumors in Tohoku University. <i>Neurologia Medico-Chirurgica</i> , 2013, 53, 455-466.	2.2	5
67	Risk Assessment for Venous Thromboembolism in Patients With Neuroepithelial Tumors: Pretreatment Score to Identify High Risk Patients. <i>Neurologia Medico-Chirurgica</i> , 2013, 53, 467-473.	2.2	5
68	Craniopharyngiomas Presenting with Nonobstructive Hydrocephalus: Underlying Influence of Subarachnoidal Hemorrhage. Two Case Reports. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , 2015, 76, 418-423.	0.8	5
69	Reliability Analysis of Highly Redundant Distributed Storage Systems with Dynamic Refusing. , 2015, , .		5
70	Bond durability and surface states of titanium, Ti-6Al-4V alloy, and zirconia for implant materials. <i>Journal of Prosthodontic Research</i> , 2022, 66, 296-302.	2.8	5
71	Water Veil Effect to Control Splashing from the Pulsed Water Jet Device: Minimizing the Potential Risk of Dissemination Using Surgical Aspirators. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , 2018, 79, 309-315.	0.8	4
72	Reducing Surgeon's Physical Stress in Minimally Invasive Neurosurgery. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , 2019, 80, 333-340.	0.8	3

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73	Aortic Complex Rupture After Transcatheter Aortic Valve Implantation. <i>International Heart Journal</i> , 2019, 60, 772-777.	1.0	3
74	Bond strength of artificial teeth to thermoplastic denture base resin for injection molding. <i>Dental Materials Journal</i> , 2021, 40, 657-663.	1.8	3
75	Effects of Taurine on Cardiovascular and Autonomic Nervous Functions in Cold Exposed rats. <i>Advances in Experimental Medicine and Biology</i> , 2009, 643, 533-540.	1.6	3
76	Clinical significance and limitations of repeat resection for pediatric malignant neuroepithelial tumors. <i>Journal of Neurosurgery: Pediatrics</i> , 2013, 12, 309-316.	1.3	2
77	Continuous Minor Bleeding from Tumor Surface in Patients with Craniopharyngiomas: Case Series of Nonobstructive Hydrocephalus. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , 2018, 79, 436-441.	0.8	2
78	Slowly progressive cerebral amyloid angiopathy-related inflammation: Characteristic findings of sequential magnetic resonance imaging. <i>Clinical Neurology and Neurosurgery</i> , 2020, 197, 106198.	1.4	2
79	Effects of ytterbium laser surface treatment on the bonding of two resin cements to zirconia. <i>Dental Materials Journal</i> , 2022, 41, 45-53.	1.8	2
80	Methodological assessment of the reduction of dissemination risk and quantification of debris dispersion during dissection with a surgical aspirator. <i>BMC Research Notes</i> , 2022, 15, 85.	1.4	2
81	Ensuring Data Consistency for High Available Storage Feature on Distantly-Multiple Storage Devices. , 2016, , .		1
82	Effect of endoscope flexibility on tissue dissection profile assessed with pulsed water jet device: ensuring safety, efficacy, and handling of thin devices for neuroendoscopic surgery. <i>BMC Research Notes</i> , 2021, 14, 64.	1.4	1
83	Venous Thromboembolism in Patients with Malignant Glioma. <i>Japanese Journal of Neurosurgery</i> , 2009, 18, 294-299.	0.0	1
84	MRI-based Flow Dynamics Analysis in Patients with Cerebral Aneurysm. <i>Japanese Journal of Neurosurgery</i> , 2010, 19, 412-418.	0.0	1
85	The Correlation Between Hemoglobin Concentration and B-type Natriuretic Peptide in Patients with First Acute Myocardial Infarction. <i>Journal of Cardiac Failure</i> , 2011, 17, S156.	1.7	0
86	Development of a robotic evaluation system for the ability of proprioceptive sensation in slow hand motion. , 2015, 2015, 6975-8.		0
87	A Case Report of Maxillary Complete Dentures for an Edentulous Patient with Class III Ridge Relationship. <i>Annals of Japan Prosthodontic Society</i> , 2016, 8, 301-304.	0.0	0
88	Reliability and Failure Impact Analysis of Distributed Storage Systems with Dynamic Refuging. <i>IEICE Transactions on Information and Systems</i> , 2016, E99.D, 2259-2268.	0.7	0
89	State reduction method of Markov chain calculation for a highly-available storage device. , 2016, , .		0
90	Parapharyngeal neuroglial heterotopia appearing as high uptake on 18Fâ€“FDG PET: case report and literature review of radiographical findings. <i>Acta Neurochirurgica</i> , 2018, 160, 801-809.	1.7	0

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91	TCT-257 Effect of Post-Dilatation Irrespective of the Degree of Residual Paravalvular Leakage Following Balloon-Expandable Transcatheter Aortic Valve Replacement. Journal of the American College of Cardiology, 2019, 74, B256.	2.8	0
92	TCT-17 Coronary Obstruction Risk Assessment: A Comparison of Snorkel Stenting and BASILICA. Journal of the American College of Cardiology, 2019, 74, B17.	2.8	0
93	AB1151 APPLICATION OF ULTRASOUND TO DISTINGUISHING PMR FROM POLYARTHRALGIA. , 2019, , .		0
94	Direct Inspection with Dual Endoscope Technique via Bilateral Transforaminal Approach Leading to Complete Resection of Recurrent Colloid Cyst of the Third Ventricle. World Neurosurgery, 2020, 141, 272-277.	1.3	0
95	Combined Treatment with Bortezomib Plus Bafilomycin A1 Enhances Cytocidal Effect along with Induction of ER Stress In Myeloma Cells: Crosstalk Among Proteasome, Autophagy-Lysosome, and ER Stress. Blood, 2010, 116, 4058-4058.	1.4	0
96	1P2-I01 Analysis and evaluation of the laterality in bimanual reaching movements. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2015, 2015, _1P2-I01_1-_1P2-I01_2.	0.0	0
97	Development of a cooperative neuro-rehabilitation system using robotic technology. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2016, 2016, 1P1-02a6.	0.0	0
98	Quantitative analysis of muscle proprioceptive sensations in the force perception task. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2016, 2016, 1A1-03a3.	0.0	0
99	Transcatheter aortic valve implantation for patients with low left ventricular ejection fraction under prophylactic use of veno-arterial extracorporeal membrane oxygenation. Gazzetta Medica Italiana Archivio Per Le Scienze Mediche, 2020, 179, .	0.1	0