

Motoyuki Hattori

List of Publications by Year in descending order

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1,834
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430874

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docs citations

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times ranked

2348
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular mechanism of ATP binding and ion channel activation in P2X receptors. <i>Nature</i> , 2012, 485, 207-212.	27.8	460
2	A Fluorescence-Detection Size-Exclusion Chromatography-Based Thermostability Assay for Membrane Protein Precrystallization Screening. <i>Structure</i> , 2012, 20, 1293-1299.	3.3	222
3	Crystal structure of the MgtE Mg ²⁺ transporter. <i>Nature</i> , 2007, 448, 1072-1075.	27.8	166
4	TMC1 and TMC2 Proteins Are Pore-Forming Subunits of Mechanosensitive Ion Channels. <i>Neuron</i> , 2020, 105, 310-321.e3.	8.1	109
5	Cryo-EM structures of the human volume-regulated anion channel LRRC8. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 797-804.	8.2	104
6	Mg ²⁺ -dependent gating of bacterial MgtE channel underlies Mg ²⁺ homeostasis. <i>EMBO Journal</i> , 2009, 28, 3602-3612.	7.8	94
7	Structural insights into the competitive inhibition of the ATP-gated P2X receptor channel. <i>Nature Communications</i> , 2017, 8, 876.	12.8	75
8	Druggable negative allosteric site of P2X3 receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4939-4944.	7.1	73
9	Structural Insights into Divalent Cation Modulations of ATP-Gated P2X Receptor Channels. <i>Cell Reports</i> , 2016, 14, 932-944.	6.4	59
10	Mg ²⁺ -sensing mechanism of Mg ²⁺ transporter MgtE probed by molecular dynamics study. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15393-15398.	7.1	56
11	ATP-dependent modulation of MgtE in Mg ²⁺ homeostasis. <i>Nature Communications</i> , 2017, 8, 148.	12.8	54
12	Structural basis for ion selectivity revealed by high-resolution crystal structure of Mg ²⁺ channel MgtE. <i>Nature Communications</i> , 2014, 5, 5374.	12.8	41
13	Structural insights into the nucleotide base specificity of P2X receptors. <i>Scientific Reports</i> , 2017, 7, 45208.	3.3	41
14	Structural basis for the Mg ²⁺ recognition and regulation of the CorC Mg ²⁺ transporter. <i>Science Advances</i> , 2021, 7, .	10.3	41
15	Structural Basis of Novel Interactions Between the Small-GTPase and GDI-like Domains in Prokaryotic FeoB Iron Transporter. <i>Structure</i> , 2009, 17, 1345-1355.	3.3	32
16	Molecular mechanisms of human P2X3 receptor channel activation and modulation by divalent cation bound ATP. <i>ELife</i> , 2019, 8, .	6.0	30
17	Structure-based engineering of anti-GFP nanobody tandems as ultra-high-affinity reagents for purification. <i>Scientific Reports</i> , 2020, 10, 6239.	3.3	25
18	Conductance of P2X ₄ purinergic receptor is determined by conformational equilibrium in the transmembrane region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 4741-4746.	7.1	23

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19	Crystal structures of the TRIC trimeric intracellular cation channel orthologues. <i>Cell Research</i> , 2016, 26, 1288-1301.	12.0	21
20	Recent progress in the structural biology of <sc>P2X</sc> receptors. <i>Proteins: Structure, Function and Bioinformatics</i> , 2022, 90, 1779-1785.	2.6	18
21	Recent Advances in the Structural Biology of Mg ²⁺ Channels and Transporters. <i>Journal of Molecular Biology</i> , 2022, 434, 167729.	4.2	12
22	Functional roles of Mg ²⁺ binding sites in ion-dependent gating of a Mg ²⁺ channel, MgtE, revealed by solution NMR. <i>ELife</i> , 2018, 7, .	6.0	10
23	Fluorescence-detection size-exclusion chromatography utilizing nanobody technology for expression screening of membrane proteins. <i>Communications Biology</i> , 2021, 4, 366.	4.4	10
24	Crystallization and preliminary X-ray diffraction analysis of the full-length Mg ²⁺ transporter MgtE. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007, 63, 682-684.	0.7	9
25	P2X3-selective mechanism of Gefapixant, a drug candidate for the treatment of refractory chronic cough. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 1642-1653.	4.1	9
26	The structure of MgtE in the absence of magnesium provides new insights into channel gating. <i>PLoS Biology</i> , 2021, 19, e3001231.	5.6	8
27	Crystallization and preliminary X-ray diffraction analysis of the cytosolic domain of a cation diffusion facilitator family protein. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2007, 63, 771-773.	0.7	6
28	Spatial distribution of cytoplasmic domains of the Mg ²⁺ -transporter MgtE, in a solution lacking Mg ²⁺ , revealed by paramagnetic relaxation enhancement. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 1129-1135.	2.3	5
29	A FRET-based screening method to detect potential inhibitors of the binding of CNNM3 to PRL2. <i>Scientific Reports</i> , 2020, 10, 12879.	3.3	5
30	Identification and mechanistic analysis of an inhibitor of the CorC Mg ²⁺ transporter. <i>IScience</i> , 2021, 24, 102370.	4.1	5
31	Functional Analysis of the GPI Transamidase Complex by Screening for Amino Acid Mutations in Each Subunit. <i>Molecules</i> , 2021, 26, 5462.	3.8	5
32	The long β 2,3-sheets encoded by redundant sequences play an integral role in the channel function of P2X7 receptors. <i>Journal of Biological Chemistry</i> , 2022, 298, 102002.	3.4	3
33	Mutagenesis Analysis of GMN Motif in <i>Arabidopsis thaliana</i> Mg ²⁺ Transporter MRS2-1. <i>Bioscience, Biotechnology and Biochemistry</i> , 2022, , .	1.3	1
34	2P151 Crystallization and preliminary X-ray analysis of the bacterial membrane transporters(34.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1 2006, 46, S333.	0.1	0
35	1P115 Crystal structure of the MgtE Mg ²⁺ transporter(Membrane proteins,Oral) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 0.1	0.1	0
36	3S2-1 Structure and Mechanism of the MgtE Mg ²⁺ transporter(3S2 Structural basis for) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 0.1	0.1	0

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37	1P-042 Structure and Mechanism of the MgtE Mg ²⁺ transporter(The 46th Annual Meeting of the Tj ETQq1 1 0,784314 rgBT /Over	0.1	0
38	1P-033 Crystal structures of the cytosolic domain of the Mg ²⁺ transporter MgtE(The 46th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.1	0
39	Starting a Lab in China. Seibutsu Butsuri, 2017, 57, 323-324.	0.1	0