

# Jens Om Karlsson

## List of Publications by Year in descending order

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Version: 2024-02-01

13  
papers

319  
citations

1306789

7  
h-index

1058022

14  
g-index

15  
all docs

15  
docs citations

15  
times ranked

270  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics and Mechanism of Intercellular Ice Propagation in a Micropatterned Tissue Construct. <i>Biophysical Journal</i> , 2002, 82, 1858-1868.	0.2	70
2	Visualization of intracellular ice formation using high-speed video cryomicroscopy. <i>Cryobiology</i> , 2009, 58, 84-95.	0.3	64
3	A Theoretical Model of Intracellular Devitrification. <i>Cryobiology</i> , 2001, 42, 154-169.	0.3	53
4	Effects of solution composition on the theoretical prediction of ice nucleation kinetics and thermodynamics. <i>Cryobiology</i> , 2010, 60, 43-51.	0.3	38
5	Kinetics of Intracellular Ice Formation in One-Dimensional Arrays of Interacting Biological Cells. <i>Biophysical Journal</i> , 2005, 88, 647-660.	0.2	27
6	Effects of freezing profile parameters on the survival of cryopreserved rat embryonic neural cells. <i>Journal of Neuroscience Methods</i> , 2011, 201, 9-16.	1.3	20
7	Development of a Cell Patterning Technique Using Poly(Ethylene Glycol) Disilane. <i>Biomedical Microdevices</i> , 2003, 5, 185-194.	1.4	18
8	Theoretical analysis of unidirectional intercellular ice propagation in stratified cell clusters. <i>Cryobiology</i> , 2004, 48, 357-361.	0.3	8
9	Analysis of Mass Transport during Warming of Cryopreserved Cells. <i>Annals of the New York Academy of Sciences</i> , 1998, 858, 163-174.	1.8	7
10	Curve fitting approach for measurement of cellular osmotic properties by the electrical sensing zone method. II. Membrane water permeability. <i>Cryobiology</i> , 2010, 60, 117-128.	0.3	5
11	Analysis of Solution Exchange in Flow Chambers with Applications to Cell Membrane Permeability Measurement. <i>Cellular and Molecular Bioengineering</i> , 2010, 3, 269-285.	1.0	4
12	Effect of intercellular junction protein expression on water transport during freezing of MIN6 cells. <i>Cryobiology</i> , 2013, 67, 248-250.	0.3	2
13	Chilling causes perivitelline granule formation in activated zebrafish oocytes. <i>Cryobiology</i> , 2018, 81, 210-213.	0.3	0