

# Markus Kollmann

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11186482/publications.pdf>

Version: 2024-02-01

20  
papers

1,151  
citations

567281

15  
h-index

888059

17  
g-index

20  
all docs

20  
docs citations

20  
times ranked

1139  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Design principles of a bacterial signalling network. <i>Nature</i> , 2005, 438, 504-507.  | 27.8 | 260       |
| 2  | Single-File Diffusion of Colloids in One-Dimensional Channels. <i>Physical Review Letters</i> , 2004, 93, 026001.   | 7.8  | 232       |
| 3  | Single-file Diffusion of Atomic and Colloidal Systems: Asymptotic Laws. <i>Physical Review Letters</i> , 2003, 90, 180602.  | 7.8  | 169       |
| 4  | Functioning and robustness of a bacterial circadian clock. <i>Molecular Systems Biology</i> , 2007, 3, 90.  | 7.2  | 83        |
| 5  | Thermal Robustness of Signaling in Bacterial Chemotaxis. <i>Cell</i> , 2011, 145, 312-321.  | 28.9 | 70        |
| 6  | A sequestration feedback determines dynamics and temperature entrainment of the KaiABC circadian clock. <i>Molecular Systems Biology</i> , 2010, 6, 389.                                    | 7.2  | 56        |
| 7  | Role of Translational Coupling in Robustness of Bacterial Chemotaxis Pathway. <i>PLoS Biology</i> , 2009, 7, e1000171.  | 5.6  | 54        |
| 8  | Robust Signal Processing in Living Cells. <i>PLoS Computational Biology</i> , 2011, 7, e1002218.  | 3.2  | 47        |
| 9  | Quantifying Origins of Cell-to-Cell Variations in Gene Expression. <i>Biophysical Journal</i> , 2008, 95, 4523-4528.  | 0.5  | 27        |
| 10 | Brownian dynamics study of dynamic scaling and related freezing criteria in quasi-two-dimensional dispersions. <i>Journal of Chemical Physics</i> , 2001, 114, 8701-8707.                   | 3.0  | 26        |
| 11 | Co-expression of signaling proteins improves robustness of the bacterial chemotaxis pathway. <i>Journal of Biotechnology</i> , 2007, 129, 173-180.  | 3.8  | 26        |
| 12 | A preconditioned MinRes solver for time- $\epsilon$ -periodic parabolic optimal control problems. <i>Numerical Linear Algebra With Applications</i> , 2013, 20, 761-784.                    | 1.6  | 26        |
| 13 | Dynamic properties, scaling and related freezing criteria of two- and three-dimensional colloidal dispersions. <i>Molecular Physics</i> , 2002, 100, 2921-2933.                             | 1.7  | 25        |
| 14 | In Silico Biology: From Simulation to Understanding. <i>Current Biology</i> , 2007, 17, R132-R134.  | 3.9  | 18        |
| 15 | Signatures of gene expression noise in cellular systems. <i>Progress in Biophysics and Molecular Biology</i> , 2009, 100, 57-66.  | 2.9  | 18        |
| 16 | Exponential Signaling Gain at the Receptor Level Enhances Signal-to-Noise Ratio in Bacterial Chemotaxis. <i>PLoS ONE</i> , 2014, 9, e87815.   | 2.5  | 10        |
| 17 | Feasibility of Wearable-Based Remote Monitoring in Patients During Intensive Treatment for Aggressive Hematologic Malignancies. <i>JCO Clinical Cancer Informatics</i> , 2022, 6, e2100126. | 2.1  | 3         |
| 18 | Predicting gene expression level in <i>E. coli</i> from mRNA sequence information. , 2019, , .  |      | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Design principles of signal transduction pathways to compensate intracellular perturbations. , 2006, ,  |     | 0         |
| 20 | Pharmacosimulation of interruptions and its solution in intravenous administration of cangrelor. Clinical Hemorheology and Microcirculation, 2018, 68, 421-425. | 1.7 | 0         |