

# Jan Bednar

## List of Publications by Year in descending order

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73  
papers

4,088  
citations

159358

30  
h-index

118652

62  
g-index

75  
all docs

75  
docs citations

75  
times ranked

3841  
citing authors

#	ARTICLE	IF	CITATIONS
1	The healing dynamics of non-healing wounds using cryo-preserved amniotic membrane. <i>International Wound Journal</i> , 2022, 19, 1243-1252.	1.3	7
2	Dual role of histone variant H3.3B in spermatogenesis: positive regulation of piRNA transcription and implication in X-chromosome inactivation. <i>Nucleic Acids Research</i> , 2022, 50, 7350-7366.	6.5	5
3	The NANOTUMOR consortium – Towards the Tumor Cell Atlas. <i>Biology of the Cell</i> , 2021, 113, 272-280.	0.7	1
4	The micronucleus cytome assay – A fast tool for DNA damage screening in human conjunctival epithelial cells. <i>Ocular Surface</i> , 2021, 20, 195-198.	2.2	1
5	Nanoscale Dynamic Readout of a Chemical Redox Process Using Radicals Coupled with Nitrogen-Vacancy Centers in Nanodiamonds. <i>ACS Nano</i> , 2020, 14, 12938-12950.	7.3	66
6	Cryo-electron microscopy of the chromatin fiber. <i>Current Opinion in Structural Biology</i> , 2020, 64, 97-103.	2.6	13
7	Drug-loading capacity of polylactide-based micro- and nanoparticles – Experimental and molecular modeling study. <i>International Journal of Pharmaceutics</i> , 2020, 591, 120031.	2.6	13
8	Phase-plate cryo-EM structure of the Widom 601 CENP-A nucleosome core particle reveals differential flexibility of the DNA ends. <i>Nucleic Acids Research</i> , 2020, 48, 5735-5748.	6.5	27
9	Generation of Remosomes by the SWI/SNF Chromatin Remodeler Family. <i>Scientific Reports</i> , 2019, 9, 14212.	1.6	4
10	Endothelial Wound Repair of the Organ-Cultured Porcine Corneas. <i>Current Eye Research</i> , 2018, 43, 856-865.	0.7	5
11	Frequency of Complications During Preparation of Corneal Lamellae Used in Posterior Lamellar Keratoplasty Using the Pneumodissection Technique (Big Bubble). <i>Cornea</i> , 2018, 37, 904-908.	0.9	4
12	Structure of an H1-Bound 6-Nucleosome Array Reveals an Untwisted Two-Start Chromatin Fiber Conformation. <i>Molecular Cell</i> , 2018, 72, 902-915.e7.	4.5	93
13	Supported Lipid Bilayers on Fluorescent Nanodiamonds: A Structurally Defined and Versatile Coating for Bioapplications. <i>Advanced Functional Materials</i> , 2018, 28, 1803406.	7.8	19
14	Characterization and comparison of human limbal explant cultures grown under defined and xeno-free conditions. <i>Experimental Eye Research</i> , 2018, 176, 20-28.	1.2	10
15	Antimicrobial efficiency and stability of two decontamination solutions. <i>Cell and Tissue Banking</i> , 2018, 19, 581-589.	0.5	3
16	The enzymatic de-epithelialization technique determines denuded amniotic membrane integrity and viability of harvested epithelial cells. <i>PLoS ONE</i> , 2018, 13, e0194820.	1.1	15
17	Effects of Membrane PEGylation on Entry and Location of Antifungal Drug Itraconazole and Their Pharmacological Implications. <i>Molecular Pharmaceutics</i> , 2017, 14, 1057-1070.	2.3	19
18	Structure and Dynamics of a 197Åbp Nucleosome in Complex with Linker Histone H1. <i>Molecular Cell</i> , 2017, 66, 384-397.e8.	4.5	225

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19	Polyion complex vesicles (PICsomes) from strong copolyelectrolytes. Stability and in vitro studies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 158, 658-666.	2.5	13
20	Comparison of impact of two decontamination solutions on the viability of the cells in human amnion. <i>Cell and Tissue Banking</i> , 2017, 18, 413-423.	0.5	3
21	Effect of Polycation Structure on Interaction with Lipid Membranes. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7318-7326.	1.2	27
22	Polymersome-to-coacervate transformations. <i>European Polymer Journal</i> , 2017, 94, 125-135.	2.6	8
23	Extra views on structure and dynamics of DNA loops on nucleosomes studied with molecular simulations. <i>Nucleus</i> , 2016, 7, 554-559.	0.6	3
24	The Flexible Ends of CENP-A Nucleosome Are Required for Mitotic Fidelity. <i>Molecular Cell</i> , 2016, 63, 674-685.	4.5	72
25	The N-terminal domain plays a crucial role in the structure of a full-length human mitochondrial Lon protease. <i>Scientific Reports</i> , 2016, 6, 33631.	1.6	31
26	H1 nucleosome interactions and their functional implications. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2016, 1859, 436-443.	0.9	35
27	Stable polymersomes based on ionic zwitterionic block copolymers modified with superparamagnetic iron oxide nanoparticles for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2015, 3, 5523-5531.	2.9	22
28	Rapid cooling of the amniotic membrane as a model system for the vitrification of posterior corneal lamellae. <i>Cell and Tissue Banking</i> , 2014, 15, 165-173.	0.5	2
29	Interactions of serum with polyelectrolyte-stabilized liposomes: Cryo-TEM studies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 120, 152-159.	2.5	23
30	Curcumin-containing liposomes stabilized by thin layers of chitosan derivatives. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 109, 307-316.	2.5	111
31	Interactions of a Hydrophobically Modified Polycation with Zwitterionic Lipid Membranes. <i>Langmuir</i> , 2012, 28, 676-688.	1.6	42
32	Nucleosomes stacked with aligned dyad axes are found in native compact chromatin in vitro. <i>Journal of Structural Biology</i> , 2012, 178, 207-214.	1.3	41
33	Coassembly of Poly(ethylene oxide)-block-poly(methacrylic acid) and N-Dodecylpyridinium Chloride in Aqueous Solutions Leading to Ordered Micellar Assemblies within Copolymer Aggregates. <i>Macromolecules</i> , 2012, 45, 6471-6480.	2.2	46
34	Silicone Nano/Microstructures Obtained in Ionic Polymerization. <i>Macromolecular Symposia</i> , 2011, 308, 43-48.	0.4	1
35	Chromatin under mechanical stress: from single 30 nm fibers to single nucleosomes. <i>FEBS Journal</i> , 2011, 278, 2231-2243.	2.2	12
36	Bilayer structures in dioctadecyldimethylammonium bromide/oleic acid dispersions. <i>Chemistry and Physics of Lipids</i> , 2011, 164, 359-367.	1.5	22

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37	From crystal and NMR structures, footprints and cryo-electron-micrographs to large and soft structures: nanoscale modeling of the nucleosomal stem. <i>Nucleic Acids Research</i> , 2011, 39, 9139-9154.	6.5	44
38	The docking domain of histone H2A is required for H1 binding and RSC-mediated nucleosome remodeling. <i>Nucleic Acids Research</i> , 2011, 39, 2559-2570.	6.5	56
39	Silicone-stabilized liposomes. <i>Colloid and Polymer Science</i> , 2010, 288, 37-45.	1.0	20
40	Single-base resolution mapping of H1 nucleosome interactions and 3D organization of the nucleosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9620-9625.	3.3	178
41	Remosomes: RSC generated non-mobilized particles with approximately 180 bp DNA loosely associated with the histone octamer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1936-1941.	3.3	45
42	Correction for Shukla et al., Remosomes: RSC generated non-mobilized particles with approximately 180 bp DNA loosely associated with the histone octamer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 8041-8041.	3.3	0
43	Spontaneous Formation of Densely Stacked Multilamellar Vesicles in Dioctadecyldimethylammonium Bromide/Oleosiloxane Mixtures. <i>Langmuir</i> , 2010, 26, 1551-1556.	1.6	18
44	Behavior of 2,6-Bis(decyloxy)naphthalene Inside Lipid Bilayer. <i>Journal of Physical Chemistry B</i> , 2010, 114, 15483-15494.	1.2	11
45	Hybrid Silica-Silicone Nanocapsules Obtained in Catanionic Vesicles. <i>Cryo-TEM Studies. Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 3138-3143.	0.9	15
46	The incorporation of the novel histone variant H2AL2 confers unusual structural and functional properties of the nucleosome. <i>Nucleic Acids Research</i> , 2009, 37, 4684-4695.	6.5	43
47	The Dynamics of Individual Nucleosomes Controls the Chromatin Condensation Pathway: Direct Atomic Force Microscopy Visualization of Variant Chromatin. <i>Biophysical Journal</i> , 2009, 97, 544-553.	0.2	25
48	Vesicles to Concentrate Iron in Low Iron Media: An Attempt to Mimic Marine Siderophores. <i>Chemistry - A European Journal</i> , 2008, 14, 3680-3686.	1.7	10
49	Dissection of the unusual structural and functional properties of the variant H2A.Bbd nucleosome. <i>EMBO Journal</i> , 2006, 25, 4234-4244.	3.5	103
50	Pulling the chromatin. <i>European Physical Journal E</i> , 2006, 19, 331-337.	0.7	10
51	3D reconstruction and comparison of shapes of DNA minicircles observed by cryo-electron microscopy. <i>Nucleic Acids Research</i> , 2006, 34, e125-e125.	6.5	39
52	Histone Octamer Instability under Single Molecule Experiment Conditions. <i>Journal of Biological Chemistry</i> , 2005, 280, 19958-19965.	1.6	87
53	Magneto-optical tweezers built around an inverted microscope. <i>Applied Optics</i> , 2005, 44, 3454.	2.1	13
54	Assembly of the full-length recombinant mouse prion protein I. Formation of soluble oligomers. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1724, 355-366.	1.1	32

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55	The Histone Octamer Is Invisible When NF- $\kappa$ B Binds to the Nucleosome. <i>Journal of Biological Chemistry</i> , 2004, 279, 42374-42382.	1.6	60
56	Ribosomal genes in focus. <i>Journal of Cell Biology</i> , 2002, 157, 743-748.	2.3	132
57	Searching for active ribosomal genes in situ: light microscopy in light of the electron beam. <i>Journal of Structural Biology</i> , 2002, 140, 227-231.	1.3	9
58	MENT, a Heterochromatin Protein That Mediates Higher Order Chromatin Folding, Is a New Serpin Family Member. <i>Journal of Biological Chemistry</i> , 1999, 274, 5626-5636.	1.6	105
59	The Nature of the Nucleosomal Barrier to Transcription. <i>Molecular Cell</i> , 1999, 4, 377-386.	4.5	78
60	Cryoelectron microscopic analysis of nucleosomes and chromatin. <i>Methods in Enzymology</i> , 1999, 304, 191-213.	0.4	22
61	Linker Histones Stabilize the Intrinsic Salt-Dependent Folding of Nucleosomal Arrays: A Mechanistic Ramification for Higher-Order Chromatin Folding. <i>Biochemistry</i> , 1998, 37, 14776-14787.	1.2	224
62	Nucleosomes, linker DNA, and linker histone form a unique structural motif that directs the higher-order folding and compaction of chromatin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 14173-14178.	3.3	500
63	Opposite effect of counterions on the persistence length of nicked and non-nicked DNA. <i>Journal of Molecular Biology</i> , 1997, 266, 711-721.	2.0	32
64	Electron-beam-induced amorphization of ice III or IX obtained by high-pressure freezing. <i>Journal of Microscopy</i> , 1996, 182, 163-168.	0.8	16
65	Electrophoretic mobility of DNA knots. <i>Nature</i> , 1996, 384, 122-122.	13.7	172
66	Geometry and physics of knots. <i>Nature</i> , 1996, 384, 142-145.	13.7	230
67	Determination of the DNA Helical Repeat and of the Structure of Supercoiled DNA by Cryo-Electron Microscopy. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1996, , 117-138.	0.5	0
68	Chromatin conformation and salt-induced compaction: three-dimensional structural information from cryoelectron microscopy. <i>Journal of Cell Biology</i> , 1995, 131, 1365-1376.	2.3	152
69	Determination of DNA Persistence Length by Cryo-electron Microscopy. Separation of the Static and Dynamic Contributions to the Apparent Persistence Length of DNA. <i>Journal of Molecular Biology</i> , 1995, 254, 579-594.	2.0	219
70	DNA at the Entry-Exit of the Nucleosome Observed by Cryoelectron Microscopy. <i>Journal of Structural Biology</i> , 1995, 114, 177-183.	1.3	55
71	Determination of the DNA helical repeat by cryo-electron microscopy. <i>Nature Structural and Molecular Biology</i> , 1994, 1, 361-363.	3.6	15
72	The Twist, Writhe and Overall Shape of Supercoiled DNA Change During Counterion-induced Transition from a Loosely to a Tightly Interwound Superhelix. <i>Journal of Molecular Biology</i> , 1994, 235, 825-847.	2.0	245

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73	Postnatal appearance of uncoupling protein and formation of thermogenic mitochondria in hamster brown adipose tissue. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1990, 1015, 441-449.	0.5	26