Brad J Nolen

List of Publications by Year
in descending order

30 papers	2,577 citations	304743 22 h-index	501196 28 g-index
33 all docs	33 docs citations	33 times ranked	3750 citing authors

#	Article	IF	Citations
1	Regulation of Protein Kinases. Molecular Cell, 2004, 15, 661-675.	9.7	972
2	Small Molecules CK-666 and CK-869 Inhibit Actin-Related Protein 2/3 Complex by Blocking an Activating Conformational Change. Chemistry and Biology, 2013, 20, 701-712.	6.0	289
3	Interplay between SRPK and Clk/Sty Kinases in Phosphorylation of the Splicing Factor ASF/SF2 Is Regulated by a Docking Motif in ASF/SF2. Molecular Cell, 2005, 20, 77-89.	9.7	179
4	Mechanism of synergistic activation of Arp2/3 complex by cortactin and N-WASP. ELife, 2013, 2, e00884.	6.0	102
5	Processive phosphorylation of alternative splicing factor/splicing factor 2. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12601-12606.	7.1	97
6	Crystal structures of actin-related protein 2/3 complex with bound ATP or ADP. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15627-15632.	7.1	81
7	The structure of Sky1p reveals a novel mechanism for constitutive activity. Nature Structural Biology, 2001, 8, 176-183.	9.7	70
8	Insights into the Influence of Nucleotides on Actin Family Proteins from Seven Structures of Arp2/3 Complex. Molecular Cell, 2007, 26, 449-457.	9.7	70
9	Structural basis for regulation of Arp2/3 complex by GMF. Nature Structural and Molecular Biology, 2013, 20, 1062-1068.	8.2	70
10	Dip1 Defines a Class of Arp2/3 Complex Activators that Function without Preformed Actin Filaments. Current Biology, 2013, 23, 1990-1998.	3.9	68
11	Mechanism of a Concentration-dependent Switch between Activation and Inhibition of Arp2/3 Complex by Coronin. Journal of Biological Chemistry, 2011, 286, 17039-17046.	3.4	61
12	Interactions with Actin Monomers, Actin Filaments, and Arp2/3 Complex Define the Roles of WASP Family Proteins and Cortactin in Coordinately Regulating Branched Actin Networks. Journal of Biological Chemistry, 2014, 289, 28856-28869.	3.4	50
13	Nucleotide-Mediated Conformational Changes of Monomeric Actin and Arp3 Studied by Molecular Dynamics Simulations. Journal of Molecular Biology, 2008, 376, 166-183.	4.2	49
14	Role and structural mechanism of WASP-triggered conformational changes in branched actin filament nucleation by Arp2/3 complex. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3834-43.	7.1	48
15	Cryo-EM reveals the transition of Arp2/3 complex from inactive to nucleation-competent state. Nature Structural and Molecular Biology, 2020, 27, 1009-1016.	8.2	48
16	Structural Characterization and Computerâ€Aided Optimization of a Smallâ€Molecule Inhibitor of the Arp2/3 Complex, a Key Regulator of the Actin Cytoskeleton. ChemMedChem, 2012, 7, 1286-1294.	3.2	42
17	Structure and Biochemical Properties of Fission Yeast Arp2/3 Complex Lacking the Arp2 Subunit. Journal of Biological Chemistry, 2008, 283, 26490-26498.	3.4	41
18	Structure of Arp2/3 complex at a branched actin filament junction resolved by single-particle cryo-electron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	33

#	Article	IF	Citations
19	Identification of an ATP-controlled allosteric switch that controls actin filament nucleation by Arp2/3 complex. Nature Communications, 2016, 7, 12226.	12.8	32
20	Identification of Wiskott-Aldrich syndrome protein (WASP) binding sites on the branched actin filament nucleator Arp2/3 complex. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1409-E1418.	7.1	30
21	Structure of the nucleationâ€promoting factor <scp>SPIN</scp> 90 bound to the actin filament nucleator Arp2/3 complex. EMBO Journal, 2018, 37, .	7.8	29
22	Nucleotide-Induced Conformational Changes in theSaccharomyces cerevisiaeSR Protein Kinase, Sky1p, Revealed by X-ray Crystallographyâ€. Biochemistry, 2003, 42, 9575-9585.	2.5	26
23	Insertions within the Actin Core of Actin-related Protein 3 (Arp3) Modulate Branching Nucleation by Arp2/3 Complex. Journal of Biological Chemistry, 2013, 288, 487-497.	3.4	20
24	Dip1 Co-opts Features of Branching Nucleation to Create Linear Actin Filaments that Activate WASP-Bound Arp2/3 Complex. Current Biology, 2018, 28, 3886-3891.e4.	3.9	16
25	Single-Turnover Activation of Arp2/3 Complex by Dip1 May Balance Nucleation of Linear versus Branched Actin Filaments. Current Biology, 2019, 29, 3331-3338.e7.	3.9	16
26	Unconcerted conformational changes in Arp2/3 complex integrate multiple activating signals to assemble functional actin networks. Current Biology, 2022, 32, 975-987.e6.	3.9	16
27	Nucleotide- and Activator-Dependent Structural and Dynamic Changes of Arp2/3 Complex Monitored by Hydrogen/Deuterium Exchange and Mass Spectrometry. Journal of Molecular Biology, 2009, 390, 414-427.	4.2	15
28	Synergy between Wsp1 and Dip1 may initiate assembly of endocytic actin networks. ELife, 2020, 9, .	6.0	6
29	Inside Cover: Structural Characterization and Computer-Aided Optimization of a Small-Molecule Inhibitor of the Arp2/3 Complex, a Key Regulator of the Actin Cytoskeleton (ChemMedChem 7/2012). ChemMedChem, 2012, 7, 1130-1130.	3.2	0
30	Analysis of functional surfaces on the actin nucleation promoting factor Dip1 required for Arp2/3 complex activation and endocytic actin network assembly.. Journal of Biological Chemistry, 2022, , 102019.	3.4	0