Gourisankar Ghosh

List of Publications by Year
in descending order

122 papers	10,452 citations	28274 55 h-index	33894 99 g-index
156 all docs	156 docs citations	156 times ranked	11843 citing authors

#	Article	IF	Citations
1	PABP1 Drives the Selective Translation of Influenza A Virus mRNA. Journal of Molecular Biology, 2022, 434, 167460.	4.2	5
2	Regulatory subunit NEMO promotes polyubiquitin-dependent induction of NF-Î°B through a targetable second interaction with upstream activator IKK2. Journal of Biological Chemistry, 2022, 298, 101864.	3.4	11
3	Intrapulmonary administration of purified NEIL2 abrogates NF-Î°Bâ€"mediated inflammation. Journal of Biological Chemistry, 2021, 296, 100723.	3.4	14
4	Immunosuppression of Macrophages Underlies the Cardioprotective Effects of CST (Catestatin). Hypertension, 2021, 77, 1670-1682.	2.7	31
5	Discovery of a pre-mRNA structural scaffold as a contributor to the mammalian splicing code. Nucleic Acids Research, 2021, 49, 7103-7121.	14.5	7
6	Dynamic chromatin association of IÎ°BÎ± is regulated by acetylation and cleavage of histone H4. EMBO Reports, 2021, 22, e52649.	4.5	8
7	Origin of the Functional Distinctiveness of NF-Î°B/p52. Frontiers in Cell and Developmental Biology, 2021, 9, 764164.	3.7	15
8	Structurally plastic NEMO and oligomerization prone IKK2 subunits define the behavior of human IKK2:NEMO complexes in solution. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140526.	2.3	5
9	Structural disruption of exonic stemâ€"loops immediately upstream of the intron regulates mammalian splicing. Nucleic Acids Research, 2020, 48, 6294-6309.	14.5	24
10	Deficiency in classical nonhomologous end-joiningâ€"mediated repair of transcribed genes is linked to SCA3 pathogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8154-8165.	7.1	28
11	Dissecting the Regulatory Strategies of NF-Î°B RelA Target Genes in the Inflammatory Response Reveals Differential Transactivation Logics. Cell Reports, 2020, 30, 2758-2775.e6.	6.4	35
12	Genome reading by the NF-Î°B transcription factors. Nucleic Acids Research, 2019, 47, 9967-9989.	14.5	78
13	An NFÎ°B Activity Calculator to Delineate Signaling Crosstalk: Type I and II Interferons Enhance NFÎ°B via Distinct Mechanisms. Frontiers in Immunology, 2019, 10, 1425.	4.8	31
14	NF-Î°B, IÎ°B, and IKK: Integral Components of Immune System Signaling. Advances in Experimental Medicine and Biology, 2019, 1172, 207-226.	1.6	145
15	Protein Cofactors Are Essential for High-Affinity DNA Binding by the Nuclear Factor Î°B RelA Subunit. Biochemistry, 2018, 57, 2943-2957.	2.5	16
16	A Guide to Production, Crystallization, and Structure Determination of Human IKK1/α. Journal of Visualized Experiments, 2018, , .	0.3	0
17	Challenges and Insights in Regulation of p53 and NFâ€kappaB Transcription Factors: Making the Case for Cancer Prevention from the Environmentalâ€Physiological Paradigm. FASEB Journal, 2018, 32, 648.22.	0.5	0
18	A mechanism for signalâ€dependent IKKÎ² activation driven by molecular interactions with polyâ€ubiquitinâ€bound NEMO. FASEB Journal, 2018, 32, 662.10.	0.5	0

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19	Construing the Dynamic Complexity at a Plausible IKK2-Nemo Interface. Biophysical Journal, 2017, 112, 352a.	0.5	0
20	DNA-binding affinity and transcriptional activity of the RelA homodimer of nuclear factor Î°B are not correlated. Journal of Biological Chemistry, 2017, 292, 18821-18830.	3.4	22
21	Bcl3 Phosphorylation by Akt, Erk2, and IKK Is Required for Its Transcriptional Activity. Molecular Cell, 2017, 67, 484-497.e5.	9.7	47
22	Structural Basis for the Activation of IKK1/Î±. Cell Reports, 2016, 17, 1907-1914.	6.4	47
23	To Swap or Not To Swap. Structure, 2016, 24, 1436-1438.	3.3	0
24	A New DNA Methyltransferase-Histone Deacetylase-Kinase Axis in Innate Immunity. Molecular Cell, 2016, 63, 544-546.	9.7	1
25	The NF-Î°B subunit RelB controls p100 processing by competing with the kinases NIK and IKK1 for binding to p100. Science Signaling, 2016, 9, ra96.	3.6	16
26	IÎ°BÎ² enhances the generation of the low-affinity NFÎ°B/RelA homodimer. Nature Communications, 2015, 6, 7068.	12.8	41
27	N-terminus of the protein kinase CLK1 induces SR protein hyperphosphorylation. Biochemical Journal, 2014, 462, 143-152.	3.7	35
28	p100/IÎ°BÎ´ sequesters and inhibits NF-Î°B through kappaBsome formation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15946-15951.	7.1	54
29	Probing Kinase Activation and Substrate Specificity with an Engineered Monomeric IKK2. Biochemistry, 2014, 53, 2064-2073.	2.5	7
30	Role of lysine methylation of NF-Î°B in differential gene regulation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13510-13515.	7.1	42
31	A Structural Basis for Selective Dimerization by NF-Î°B RelB. Journal of Molecular Biology, 2013, 425, 1934-1945.	4.2	14
32	A Structural Basis for IÎ°B Kinase 2 Activation Via Oligomerization-Dependent Trans Auto-Phosphorylation. PLoS Biology, 2013, 11, e1001581.	5.6	93
33	Analysis of the RelA:CBP/p300 Interaction Reveals Its Involvement in NF-Î°B-Driven Transcription. PLoS Biology, 2013, 11, e1001647.	5.6	118
34	PRMT5 dimethylates R30 of the p65 subunit to activate NF-Î°B. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13516-13521.	7.1	205
35	The Transcriptional Specificity of NF-Î°B Dimers Is Coded within the Î°B DNA Response Elements. Cell Reports, 2012, 2, 824-839.	6.4	86
36	NEMO Ensures Signaling Specificity of the Pleiotropic IKKÎ² by Directing Its Kinase Activity toward IÎ°BÎ±. Molecular Cell, 2012, 47, 111-121.	9.7	85

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37	Understanding NIK Regulation from Its Structure. Structure, 2012, 20, 1615-1617.	3.3	5
38	NFâ€Î°B regulation: lessons from structures. Immunological Reviews, 2012, 246, 36-58.	6.0	149
39	NF-Î°B Potentiates Caspase Independent Hydrogen Peroxide Induced Cell Death. PLoS ONE, 2011, 6, e16815.	2.5	14
40	Phosphorylation mechanism and structure of serine-arginine protein kinases. FEBS Journal, 2011, 278, 587-597.	4.7	159
41	Attenuation of yeast UPR is essential for survival and is mediated by <i>IRE1</i> kinase. Journal of Cell Biology, 2011, 193, 41-50.	5.2	92
42	Interaction between the RNA binding domains of Ser-Arg splicing factor 1 and U1-70K snRNP protein determines early spliceosome assembly. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8233-8238.	7.1	180
43	The Specificity of Innate Immune Responses Is Enforced by Repression of Interferon Response Elements by NF-Î°B p50. Science Signaling, 2011, 4, ra11.	3.6	75
44	The SRSF1 linker induces semi-conservative ESE binding by cooperating with the RRMs. Nucleic Acids Research, 2011, 39, 9413-9421.	14.5	41
45	Flexible Regions within IÎ°BÎ± Create the Ubiquitin-independent Degradation Signal. Journal of Biological Chemistry, 2010, 285, 32927-32936.	3.4	17
46	Understanding the Logic of IÎ°B:NF-Î°B Regulation in Structural Terms. Current Topics in Microbiology and Immunology, 2010, 349, 1-24.	1.1	19
47	Mechanism of Dephosphorylation of the SR Protein ASF/SF2 by Protein Phosphatase 1. Journal of Molecular Biology, 2010, 403, 386-404.	4.2	33
48	Recognition of Nucleic Acids by Transcription Factor NF-Î°B. Biological and Medical Physics Series, 2010, , 85-106.	0.4	0
49	Kinetic enhancement of NF-Î°BÂ·DNA dissociation by IÎ°BÎ±. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19328-19333.	7.1	88
50	Regulation of SR protein phosphorylation and alternative splicing by modulating kinetic interactions of SRPK1 with molecular chaperones. Genes and Development, 2009, 23, 482-495.	5.9	160
51	Kinetic control of negative feedback regulators of NF-Î°B/RelA determines their pathogen- and cytokine-receptor signaling specificity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9619-9624.	7.1	94
52	Contribution of Non-catalytic Core Residues to Activity and Regulation in Protein Kinase A. Journal of Biological Chemistry, 2009, 284, 6241-6248.	3.4	44
53	A Structural Guide to Proteins of the NF-ÂB Signaling Module. Cold Spring Harbor Perspectives in Biology, 2009, 1, a000075-a000075.	5.5	102
54	Kinase Domain Insertions Define Distinct Roles of CLK Kinases in SR Protein Phosphorylation. Structure, 2009, 17, 352-362.	3.3	106

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55	NFâ€ÎºB p52:RelB heterodimer recognizes two classes of ÎºB sites with two distinct modes. EMBO Reports, 2009, 10, 152-159.	4.5	65
56	Regiospecific Phosphorylation Control of the SR Protein ASF/SF2 by SRPK1. Journal of Molecular Biology, 2009, 390, 618-634.	4.2	31
57	The Nfkb1 and Nfkb2 Proteins p105 and p100 Function as the Core of High-Molecular-Weight Heterogeneous Complexes. Molecular Cell, 2009, 34, 591-602.	9.7	120
58	Identifying Critical Non-Catalytic Residues that Modulate Protein Kinase A Activity. PLoS ONE, 2009, 4, e4746.	2.5	15
59	NF-ÎºB dictates the degradation pathway of IÎºBÎ±. EMBO Journal, 2008, 27, 1357-1367.	7.8	171
60	The IÎºBÎ±/NFâ€ÎºB complex has two hot spots, one at either end of the interface. Protein Science, 2008, 17, 2051-2058.	7.6	48
61	Ordered Multi-site Phosphorylation of the Splicing Factor ASF/SF2 By SRPK1. Journal of Molecular Biology, 2008, 376, 55-68.	4.2	46
62	Pre-folding IÎºBÎ± Alters Control of NF-ÎºB Signaling. Journal of Molecular Biology, 2008, 380, 67-82.	4.2	58
63	Adaptable Molecular Interactions Guide Phosphorylation of the SR Protein ASF/SF2 by SRPK1. Journal of Molecular Biology, 2008, 382, 894-909.	4.2	44
64	A Sliding Docking Interaction Is Essential for Sequential and Processive Phosphorylation of an SR Protein by SRPK1. Molecular Cell, 2008, 29, 563-576.	9.7	98
65	Identification of Functionally Distinct Regions That Mediate Biological Activity of the Protein Kinase A Homolog Tpk2. Journal of Biological Chemistry, 2008, 283, 1084-1093.	3.4	5
66	Transcriptional Outcome of Wnt-Frizzled Signal Transduction in Inflammation: Evolving Concepts. Journal of Immunology, 2008, 181, 4441-4445.	0.8	64
67	Stabilization of RelB Requires Multidomain Interactions with p100/p52. Journal of Biological Chemistry, 2008, 283, 12324-12332.	3.4	58
68	Structurally Unique Yeast and Mammalian Serine-Arginine Protein Kinases Catalyze Evolutionarily Conserved Phosphorylation Reactions. Journal of Biological Chemistry, 2007, 282, 23036-23043.	3.4	16
69	A Fourth IÎºB Protein within the NF-ÎºB Signaling Module. Cell, 2007, 128, 369-381.	28.9	359
70	The RGG Domain of Npl3p Recruits Sky1p Through Docking Interactions. Journal of Molecular Biology, 2007, 367, 249-261.	4.2	21
71	X-ray Structure of a NF-ÎºB p50/RelB/DNA Complex Reveals Assembly of Multiple Dimers on Tandem ÎºB Sites. Journal of Molecular Biology, 2007, 373, 723-734.	4.2	50
72	Inhibitor ÎºB Kinase Î² Binding by Inhibitor ÎºB Kinase Î³. Biochemistry, 2007, 46, 12482-12490.	2.5	22

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73	Deletion of the N-terminus of SF2/ASF Permits RS-Domain-Independent Pre-mRNA Splicing. PLoS ONE, 2007, 2, e854.	2.5	23
74	SR Protein Kinase 1 Is Resilient to Inactivation. Structure, 2007, 15, 123-133.	3.3	32
75	Thermodynamics Reveal that Helix Four in the NLS of NF-ÎºB p65 Anchors IÎºBÎ±, Forming a Very Stable Complex. Journal of Molecular Biology, 2006, 360, 421-434.	4.2	69
76	The 20S proteasome processes NF-ÎºB1 p105 into p50 in a translation-independent manner. EMBO Journal, 2006, 25, 1945-1956.	7.8	118
77	Inhibition of Transcription Factor NFâ€Î°B Activation by Î°Bâ€Ras. Methods in Enzymology, 2006, 407, 527-534.	1.0	8
78	Structural Aspects of NF-_B and I_B Proteins. , 2006, , 9-24.		0
79	Structural Analysis of NF-Î°B and IÎ°B Proteins. , 2006, , 1-11.		0
80	NF-Î°B RelB Forms an Intertwined Homodimer. Structure, 2005, 13, 1365-1373.	3.3	45
81	Pho5p and Newly Identified Nucleotide Pyrophosphatases/ Phosphodiesterases Regulate Extracellular Nucleotide Phosphate Metabolism in Saccharomyces cerevisiae. Eukaryotic Cell, 2005, 4, 1892-1901.	3.4	26
82	A c-Rel subdomain responsible for enhanced DNA-binding affinity and selective gene activation. Genes and Development, 2005, 19, 2138-2151.	5.9	111
83	Mass Spectrometric and Kinetic Analysis of ASF/SF2 Phosphorylation by SRPK1 and Clk/Sty. Journal of Biological Chemistry, 2005, 280, 41761-41768.	3.4	82
84	Crystal Structure of a Free Î°B DNA: Insights into DNA Recognition by Transcription Factor NF-Î°B. Journal of Molecular Biology, 2005, 346, 147-160.	4.2	49
85	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
86	PKR and eIF2Î±: Integration of Kinase Dimerization, Activation, and Substrate Docking. Cell, 2005, 122, 823-825.	28.9	112
87	Enhanced Intracellular Mobility and Nuclear Accumulation of DNA Plasmids Associated with a Karyophilic Protein. Human Gene Therapy, 2005, 16, 200-208.	2.7	109
88	Inhibition of NF-Î°B Activity by IÎ°BÎ² in Association with Î°B-Ras. Molecular and Cellular Biology, 2004, 24, 3048-3056.	2.3	46
89	Chemical Clamping Allows for Efficient Phosphorylation of the RNA Carrier Protein Npl3. Journal of Biological Chemistry, 2004, 279, 30182-30188.	3.4	14
90	Activation of IKKÎ± target genes depends on recognition of specific Î°B binding sites by RelB:p52 dimers. EMBO Journal, 2004, 23, 4202-4210.	7.8	299

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91	Discreet mutations from c-Rel to v-Rel alter Î°B DNA recognition, IÎ°BÎ± binding, and dimerization: implications for v-Rel oncogenicity. Oncogene, 2004, 23, 1229-1238.	5.9	13
92	Molecular mimicry of the NF-Î°B DNA target site by a selected RNA aptamer. Current Opinion in Structural Biology, 2004, 14, 21-27.	5.7	46
93	Biophysical characterization of the free IÎ°BÎ± ankyrin repeat domain in solution. Protein Science, 2004, 13, 1767-1777.	7.6	101
94	Regulation of Protein Kinases. Molecular Cell, 2004, 15, 661-675.	9.7	972
95	Nucleotide-Induced Conformational Changes in theSaccharomyces cerevisiaeSR Protein Kinase, Sky1p, Revealed by X-ray Crystallographyâ€. Biochemistry, 2003, 42, 9575-9585.	2.5	26
96	Crystal structure of NF-ÂB (p50)2 complexed to a high-affinity RNA aptamer. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9268-9273.	7.1	161
97	Î°B-Ras Binds to the Unique Insert within the Ankyrin Repeat Domain of IÎ°BÎ² and Regulates Cytoplasmic Retention of IÎ°BÎ²Â·NF-Î°B Complexes. Journal of Biological Chemistry, 2003, 278, 23101-23106.	3.4	32
98	X-ray Crystal Structure of an IÎ°BÎ²Â·NF-Î°B p65 Homodimer Complex. Journal of Biological Chemistry, 2003, 278, 23094-23100.	3.4	107
99	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
100	p105Â·IÎ°BÎ³ and Prototypical IÎ°Bs Use a Similar Mechanism to Bind but a Different Mechanism to Regulate the Subcellular Localization of NF-Î°B. Journal of Biological Chemistry, 2003, 278, 556-566.	3.4	31
101	The Î°B DNA Sequence from the HIV Long Terminal Repeat Functions as an Allosteric Regulator of HIV Transcription. Journal of Biological Chemistry, 2002, 277, 24701-24708.	3.4	81
102	The X-ray Crystal Structure of the NF-Î°B p50Â·p65 Heterodimer Bound to the Interferon Î²-Î°B Site. Journal of Biological Chemistry, 2002, 277, 24694-24700.	3.4	106
103	Mechanistic Insights into Sky1p, a Yeast Homologue of the Mammalian SR Protein Kinasesâ€. Biochemistry, 2002, 41, 10002-10009.	2.5	19
104	Solvent Exposed Non-contacting Amino Acids Play a Critical Role in NF-Î°B/IÎ°BÎ± Complex Formation. Journal of Molecular Biology, 2002, 324, 587-597.	4.2	31
105	The structure of Sky1p reveals a novel mechanism for constitutive activity. Nature Structural Biology, 2001, 8, 176-183.	9.7	70
106	X-Ray Crystal Structure of Proto-Oncogene Product c-Rel Bound to the CD28 Response Element of IL-2. Structure, 2001, 9, 669-678.	3.3	89
107	IÎ°BÎ², but Not IÎ°BÎ±, Functions as a Classical Cytoplasmic Inhibitor of NF-Î°B Dimers by Masking Both NF-Î°B Nuclear Localization Sequences in Resting Cells. Journal of Biological Chemistry, 2001, 276, 45225-45235.	3.4	152
108	NF-Î°B p65 (RelA) homodimer uses distinct mechanisms to recognize DNA targets. Structure, 2000, 8, 419-428.	3.3	65

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109	Preparation and Crystallization of Dynamic NF-Î°BÂ·IÎ°B Complexes. Journal of Biological Chemistry, 2000, 275, 32800-32806.	3.4	16
110	Mechanism of Î°B DNA binding by Rel/NF-Î°B dimers. Journal of Biological Chemistry, 2000, 275, 24392-24399.	3.4	120
111	Mechanism of IÎ°BÎ± Binding to NF-Î°B Dimers. Journal of Biological Chemistry, 2000, 275, 29840-29846.	3.4	95
112	Construction, expression, purification and functional analysis of recombinant NFÎ°B p50/p65 heterodimer. Protein Engineering, Design and Selection, 1999, 12, 423-428.	2.1	48
113	Regulation of DNA binding by Rel/NF-Î°B transcription factors: structural views. Oncogene, 1999, 18, 6845-6852.	5.9	283
114	Characterization of the Dimer Interface of Transcription Factor NFÎ°B p50 Homodimer. Journal of Molecular Biology, 1999, 289, 1029-1040.	4.2	67
115	Crystal structure of p50/p65 heterodimer of transcription factor NF-Î°B bound to DNA. Nature, 1998, 391, 410-413.	27.8	514
116	A novel DNA recognition mode by the NF-Î°B p65 homodimer. Nature Structural Biology, 1998, 5, 67-73.	9.7	218
117	The Crystal Structure of the IÎ°BÎ±/NF-Î°B Complex Reveals Mechanisms of NF-Î°B Inactivation. Cell, 1998, 95, 759-770.	28.9	592
118	IÎ°BÎ± Functions through Direct Contacts with the Nuclear Localization Signals and the DNA Binding Sequences of NF-Î°B. Journal of Biological Chemistry, 1998, 273, 25427-25435.	3.4	148
119	The role of DNA in the mechanism of NFÎ°B dimer formation: crystal structures of the dimerization domains of the p50 and p65 subunits. Structure, 1997, 5, 1427-1436.	3.3	75
120	Structure of the Oligomerization andL-Arginine Binding Domain of the Arginine Repressor ofEscherichia coli. Journal of Molecular Biology, 1996, 256, 377-391.	4.2	144
121	Pieces of the puzzle: assembling the preinitiation complex of Pol II. Structure, 1996, 4, 891-895.	3.3	4
122	Structure of NF-Î°B p50 homodimer bound to a Î°B site. Nature, 1995, 373, 303-310.	27.8	571