Petr Konarev

List of Publications by Year in descending order

127 papers	9,368 citations	147726 31 h-index	42364 92 g-index
132 all docs	132 docs citations	132 times ranked	13093 citing authors

#	Article	IF	Citations
1	PRIMUS: a Windows PC-based system for small-angle scattering data analysis. Journal of Applied Crystallography, 2003, 36, 1277-1282.	1.9	2,672
2	New developments in theATSASprogram package for small-angle scattering data analysis. Journal of Applied Crystallography, 2012, 45, 342-350.	1.9	1,551
3	ATSAS 2.8: a comprehensive data analysis suite for small-angle scattering from macromolecular solutions. Journal of Applied Crystallography, 2017, 50, 1212-1225.	1.9	1,205
4	ATSAS2.1, a program package for small-angle scattering data analysis. Journal of Applied Crystallography, 2006, 39, 277-286.	1.9	557
5	ATSAS 3.0: expanded functionality and new tools for small-angle scattering data analysis. Journal of Applied Crystallography, 2021, 54, 343-355.	1.9	512
6	Upgrade of the small-angle X-ray scattering beamline X33 at the European Molecular Biology Laboratory, Hamburg. Journal of Applied Crystallography, 2007, 40, s190-s194.	1.9	226
7	The Structure and Regulation of Human Muscle Î±-Actinin. Cell, 2014, 159, 1447-1460.	13.5	178
8	Structural bases for the interaction of frataxin with the central components of ironâ€“sulphur cluster assembly. Nature Communications, 2010, 1, 95.	5.8	161
9	MASSHAâ€“ a graphics system for rigid-body modelling of macromolecular complexes against solution scattering data. Journal of Applied Crystallography, 2001, 34, 527-532.	1.9	136
10	Characterization of Der p 21, a new important allergen derived from the gut of house dust mites*. Allergy: European Journal of Allergy and Clinical Immunology, 2008, 63, 758-767.	2.7	84
11	A regular pattern of Ig super-motifs defines segmental flexibility as the elastic mechanism of the titin chain. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1186-1191.	3.3	80
12	A posterioridetermination of the useful data range for small-angle scattering experiments on dilute monodisperse systems. IUCrJ, 2015, 2, 352-360.	1.0	78
13	A small angle x-ray scattering study of the dropletâ€“cylinder transition in oil-rich sodium bis(2-ethylhexyl) sulfosuccinate microemulsions. Journal of Chemical Physics, 2000, 113, 1651-1665.	1.2	74
14	Structural insights into the dynamics and function of the C-terminus of the E. coli RNA chaperone Hfq. Nucleic Acids Research, 2011, 39, 4900-4915.	6.5	74
15	Ferredoxin Competes with Bacterial Frataxin in Binding to the Desulfurase IscS*. Journal of Biological Chemistry, 2013, 288, 24777-24787.	1.6	68
16	Combination of Whole Genome Sequencing, Linkage, and Functional Studies Implicates a Missense Mutation in Titin as a Cause of Autosomal Dominant Cardiomyopathy With Features of Left Ventricular Noncompaction. Circulation: Cardiovascular Genetics, 2016, 9, 426-435.	5.1	67
17	The peroxisomal receptor Pex19p forms a helical mPTS recognition domain. EMBO Journal, 2010, 29, 2491-2500.	3.5	53
18	The Role of Hydration in Protein Stability: Comparison of the Cold and Heat Unfolded States of Yfh1. Journal of Molecular Biology, 2012, 417, 413-424.	2.0	52

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19	Macromolecular HPMA-Based Nanoparticles with Cholesterol for Solid-Tumor Targeting: Detailed Study of the Inner Structure of a Highly Efficient Drug Delivery System. Biomacromolecules, 2012, 13, 2594-2604.	2.6	51
20	A Mechanism for Histone Chaperoning Activity of Nucleoplasmin: Thermodynamic and Structural Models. Journal of Molecular Biology, 2009, 393, 448-463.	2.0	44
21	High Concentration Formulation Studies of an IgG2 Antibody Using Small Angle X-ray Scattering. Pharmaceutical Research, 2012, 29, 2225-2235.	1.7	44
22	Block and Gradient Copoly(2-oxazoline) Micelles: Strikingly Different on the Inside. Journal of Physical Chemistry Letters, 2017, 8, 3800-3804.	2.1	44
23	Multiple Assembly States of Lumazine Synthase: A Model Relating Catalytic Function and Molecular Assembly. Journal of Molecular Biology, 2006, 362, 753-770.	2.0	43
24	Release Factors 2 from Escherichia coli and Thermus thermophilus: structural, spectroscopic and microcalorimetric studies. Nucleic Acids Research, 2007, 35, 1343-1353.	6.5	43
25	Dissecting NGF Interactions with TrkA and p75 Receptors by Structural and Functional Studies of an Anti-NGF Neutralizing Antibody. Journal of Molecular Biology, 2008, 381, 881-896.	2.0	43
26	Structural analysis of monomeric retroviral reverse transcriptase in complex with an RNA/DNA hybrid. Nucleic Acids Research, 2013, 41, 3874-3887.	6.5	42
27	Solution Structure of Human Pex5Â·Pex14Â·PTS1 Protein Complexes Obtained by Small Angle X-ray Scattering. Journal of Biological Chemistry, 2009, 284, 25334-25342.	1.6	41
28	Hydrolytically Degradable Polymer Micelles for Drug Delivery: A SAXS/SANS Kinetic Study. Biomacromolecules, 2013, 14, 4061-4070.	2.6	39
29	Rapid automated superposition of shapes and macromolecular models using spherical harmonics. Journal of Applied Crystallography, 2016, 49, 953-960.	1.9	37
30	Superhelical Architecture of the Myosin Filament-Linking Protein Myomesin with Unusual Elastic Properties. PLoS Biology, 2012, 10, e1001261.	2.6	35
31	Rigidity, conformation, and solvation of native and oxidized tannin macromolecules in water-ethanol solution. Journal of Chemical Physics, 2009, 130, 245103.	1.2	34
32	Structural flexibility of RNA as molecular basis for Hfq chaperone function. Nucleic Acids Research, 2012, 40, 8072-8084.	6.5	29
33	Structural Insights into Ca2+-Calmodulin Regulation of Plectin 1a-Integrin Î²4 Interaction in Hemidesmosomes. Structure, 2015, 23, 558-570.	1.6	28
34	3D structure of the natural tetrameric form of human butyrylcholinesterase as revealed by cryoEM, SAXS and MD. Biochimie, 2019, 156, 196-205.	1.3	26
35	Homo-oligomerization and Activation of AMP-activated Protein Kinase Are Mediated by the Kinase Domain Î±G-Helix. Journal of Biological Chemistry, 2009, 284, 27425-27437.	1.6	25
36	Recognition of Nucleoplasmin by Its Nuclear Transport Receptor Importin Î±/Î²: Insights into a Complete Import Complex. Biochemistry, 2010, 49, 9756-9769.	1.2	25

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37	Identification of an N-terminal inhibitory extension as the primary mechanosensory regulator of twitchin kinase. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13608-13613.	3.3	25
38	Study of Complex Thermosensitive Amphiphilic Polyoxazolines and Their Interaction with Ionic Surfactants. Are Hydrophobic, Thermosensitive, and Hydrophilic Moieties Equally Important?. Journal of Physical Chemistry B, 2014, 118, 4940-4950.	1.2	25
39	The Molecular Bases of the Dual Regulation of Bacterial Iron Sulfur Cluster Biogenesis by CyaY and IscX. Frontiers in Molecular Biosciences, 2017, 4, 97.	1.6	25
40	The small-angle X-ray scattering beamline BioMUR at the Kurchatov synchrotron radiation source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 945, 162616.	0.7	25
41	Digging deeper: structural background of PEGylated fibrin gels in cell migration and lumenogenesis. RSC Advances, 2020, 10, 4190-4200.	1.7	25
42	Structural and functional properties of mouse proNGF. Biochemical Society Transactions, 2006, 34, 605-606.	1.6	24
43	Molecular insights into the selfâ€assembly mechanism of dystrophia myotonica kinase. FASEB Journal, 2006, 20, 1142-1151.	0.2	24
44	Small-angle X-ray scattering study of the influence of solvent replacement (from H2O to D2O) on the initial crystallization stage of tetragonal lysozyme. Crystallography Reports, 2017, 62, 837-842.	0.1	24
45	Structural and Mutational Analysis of Substrate Complexation by Anthranilate Phosphoribosyltransferase from Sulfolobus solfataricus. Journal of Biological Chemistry, 2006, 281, 21410-21421.	1.6	23
46	Octamer formation in lysozyme solutions at the initial crystallization stage detected by small-angle neutron scattering. Acta Crystallographica Section D: Structural Biology, 2017, 73, 591-599.	1.1	22
47	Synthesis and physico-chemical properties of poly(N-vinyl pyrrolidone)-based hydrogels with titania nanoparticles. Journal of Materials Science, 2020, 55, 3005-3021.	1.7	22
48	Characterization of a fluorophore binding RNA aptamer by fluorescence correlation spectroscopy and small angle X-ray scattering. Analytical Biochemistry, 2009, 389, 52-62.	1.1	21
49	Small-angle X-ray scattering study of conditions for the formation of growth units of protein crystals in lysozyme solutions. Crystallography Reports, 2017, 62, 364-369.	0.1	21
50	Small-angle X-ray scattering reveals hollow nanostructures in Î¹- and Î¹-carrageenan/surfactant complexes. Journal of Applied Crystallography, 2003, 36, 669-673.	1.9	20
51	The Conundrum of the High-Affinity NGF Binding Site Formation Unveiled?. Biophysical Journal, 2015, 108, 687-697.	0.2	20
52	Direct shape determination of intermediates in evolving macromolecular solutions from small-angle scattering data. IUCrJ, 2018, 5, 402-409.	1.0	20
53	Anharmonicity and superconductivity in Ba0.6K0.4BiO3. JETP Letters, 1998, 67, 1034-1039.	0.4	19
54	Structural Characterization of the Multidomain Regulatory Protein Rv1364c from Mycobacterium tuberculosis. Structure, 2011, 19, 56-69.	1.6	19

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55	Self-Assembly and Conformational Heterogeneity of the AXH Domain ofÂAtaxin-1: An Unusual Example of a Chameleon Fold. Biophysical Journal, 2013, 104, 1304-1313.	0.2	19
56	Investigation of the Structure of Crystal-Forming Solutions of Potassium Dihydrogen Phosphate K(H2PO4) (KDP type) on the Basis of Modeling Precursor Clusters and According to Small-Angle X-Ray Scattering Data. Crystallography Reports, 2019, 64, 6-10.	0.1	19
57	Interactions of ataxin-3 with its molecular partners in the protein machinery that sorts protein aggregates to the aggresome. International Journal of Biochemistry and Cell Biology, 2014, 51, 58-64.	1.2	18
58	A study of the ultrastructure of Fragile-X-related proteins. Biochemical Journal, 2009, 419, 347-357.	1.7	17
59	Novel thermosensitive telechelic PEGs with antioxidant activity: synthesis, molecular properties and conformational behaviour. RSC Advances, 2014, 4, 41763-41771.	1.7	17
60	Coat Protein-Dependent Behavior of Poly(ethylene glycol) Tails in Iron Oxide Core Virus-like Nanoparticles. ACS Applied Materials & Interfaces, 2015, 7, 12089-12098.	4.0	17
61	Restoring structural parameters of lipid mixtures from small-angle X-ray scattering data. Journal of Applied Crystallography, 2021, 54, 169-179.	1.9	17
62	<scp>EFAMIX</scp>, a tool to decompose inline chromatography <scp>SAXS</scp> data from partially overlapping components. Protein Science, 2022, 31, 269-282.	3.1	16
63	Allosteric regulation of deubiquitylase activity through ubiquitination. Frontiers in Molecular Biosciences, 2015, 2, 2.	1.6	15
64	The Structure of the Pro-domain of Mouse proNGF in Contact with the NGF Domain. Structure, 2019, 27, 78-89.e3.	1.6	15
65	The HC Fragment of Tetanus Toxin forms Stable, Concentration-dependent Dimers via an Intermolecular Disulphide Bond. Journal of Molecular Biology, 2007, 365, 123-134.	2.0	14
66	Structural Investigation of PsbO from Plant and Cyanobacterial Photosystem II. Journal of Molecular Biology, 2011, 407, 125-137.	2.0	14
67	Study of the Influence of a Precipitant Cation on the Formation of Oligomers in Crystallization Solutions of Lysozyme Protein. Crystallography Reports, 2019, 64, 11-15.	0.1	13
68	Local structure ofYNi2B2Csuperconductor determined by x-ray-absorption spectroscopy. Physical Review B, 2000, 61, 3274-3277.	1.1	12
69	Pre-crystallization phase formation of thermolysin hexamers in solution close to crystallization conditions. Journal of Biomolecular Structure and Dynamics, 2019, 37, 3058-3064.	2.0	12
70	Structural features of the single-stranded DNA-binding protein of Epsteinâ€“Barr virus. Journal of Structural Biology, 2008, 161, 172-187.	1.3	10
71	Investigation of the Pre-crystallization Stage of Proteinase K in Solution (Influence of Temperature) Tj ETQq1 1 0.784314 rgBT /Overlo	0.1	10
72	Direct intracellular selection and biochemical characterization of a recombinant anti-proNGF single chain antibody fragment. Archives of Biochemistry and Biophysics, 2012, 522, 26-36.	1.4	9

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73	Dodecamers derived from the crystal structure were found in the pre-crystallization solution of the transaminase from the thermophilic bacterium Thermobaculum terrenum by small-angle X-ray scattering. Journal of Biomolecular Structure and Dynamics, 2020, 38, 2939-2944.	2.0	9
74	Isolation and oligomeric composition of cytochrome c nitrite reductase from the haloalkaliphilic bacterium Thioalkalivibrio nitratireducens. Biochemistry (Moscow), 2008, 73, 164-170.	0.7	8
75	A dystroglycan mutation (p.Cys667Phe) associated to muscle-eye-brain disease with multicystic leucodystrophy results in ER-retention of the mutant protein. Human Mutation, 2018, 39, 266-280.	1.1	8
76	Structural characteristics of lysozyme Langmuir layers grown on a liquid surface from an oligomeric mixture formed during the early stages of lysozyme crystallization. Thin Solid Films, 2019, 677, 13-21.	0.8	8
77	Capturing the Conformational Ensemble of the Mixed Folded Polyglutamine Protein Ataxin-3. Structure, 2021, 29, 70-81.e5.	1.6	8
78	The Cytoplasmic Tail of Influenza A Virus Hemagglutinin and Membrane Lipid Composition Change the Mode of M1 Protein Association with the Lipid Bilayer. Membranes, 2021, 11, 772.	1.4	8
79	Small-angle X-ray scattering study of the structure of self-organized polymer matrices and formation of imbedded metal nanoparticles. Crystallography Reports, 2001, 46, 586-595.	0.1	7
80	Flexibility of the Linker between the Domains of DNA Methyltransferase SsoII Revealed by Small-Angle X-Ray Scattering: Implications for Transcription Regulation in SsoII Restrictionâ€“Modification System. PLoS ONE, 2014, 9, e93453.	1.1	7
81	BILMIX: a new approach to restore the size polydispersity and electron density profiles of lipid bilayers from liposomes using small-angle X-ray scattering data. Journal of Applied Crystallography, 2020, 53, 236-243.	1.9	7
82	A chimeric recombinant protein with peroxidase and superoxide dismutase activities: Physico-chemical characterization and applicability to neutralize oxidative stress caused by ionizing radiation. Biochemical Engineering Journal, 2020, 159, 107603.	1.8	7
83	Towards a solution of the inverse X-ray diffraction tomography challenge: theory and iterative algorithm for recovering the 3D displacement field function of Coulomb-type point defects in a crystal. Acta Crystallographica Section A: Foundations and Advances, 2020, 76, 163-171.	0.0	7
84	Upgrade of the BioMUR beamline at the Kurchatov synchrotron radiation source for serial small-angle X-ray scattering experiments in solutions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1025, 166170.	0.7	7
85	The double-well oscillating potential of oxygen atoms in perovskite system Ba(K)BiO3: EXAFS â€“ analysis results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 448, 340-344.	0.7	6
86	Study of the Solution Stability in the Analysis of Polydisperse Systems by Small-Angle Scattering. Crystallography Reports, 2018, 63, 26-31.	0.1	6
87	X-Ray Diffraction Tomography Recovery of the 3D Displacement-Field Function of the Coulomb-Type Point Defect in a Crystal. Scientific Reports, 2019, 9, 14216.	1.6	6
88	Restoring silicasol structural parameters using gradient and simulation annealing optimization schemes from small-angle X-ray scattering data. Journal of Molecular Liquids, 2019, 283, 221-224.	2.3	6
89	Glutamate 270 plays an essential role in K⁺â€activation and domain closure of Thermus thermophilus isopropylmalate dehydrogenase. FEBS Letters, 2015, 589, 240-245.	1.3	5
90	Interactive graphical system for small-angle scattering analysis of polydisperse systems. Journal of Physics: Conference Series, 2016, 747, 012036.	0.3	5

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91	Evaluation of the Solution Stability When Reconstructing the Volume Particle Size Distribution from Small-Angle X-Ray Scattering Data for a Silicasol Solution. Crystallography Reports, 2018, 63, 531-535.	0.1	5
92	Quasi-Atomistic Approach to Modeling of Liposomes. Crystallography Reports, 2020, 65, 258-263.	0.1	5
93	The protealysin operon encodes emfourin, a prototype of a novel family of protein metalloprotease inhibitors. International Journal of Biological Macromolecules, 2021, 169, 583-596.	3.6	5
94	Limitations of the iterative electron density reconstruction algorithm from solution scattering data. Nature Methods, 2021, 18, 244-245.	9.0	5
95	The effect of the pathological V72I, D109N and T190M missense mutations on the molecular structure of Î±-dystroglycan. PLoS ONE, 2017, 12, e0186110.	1.1	4
96	Shape Determination of Bovine Fibrinogen in Solution Using Small-Angle Scattering Data. Crystallography Reports, 2018, 63, 871-873.	0.1	4
97	To the Solution of the Inverse Problem of X-Ray Topo-Tomography. Computer Algorithms and 3D Reconstruction on the Example of a Crystal with a Point Defect of Coulomb Type. Crystallography Reports, 2019, 64, 191-200.	0.1	4
98	A combined evolutionary and structural approach to disclose the primary structural determinants essential for proneurotrophins biological functions. Computational and Structural Biotechnology Journal, 2021, 19, 2891-2904.	1.9	4
99	Influence of Chlorides of Mono- and Divalent Metals on the Oligomeric Composition of Lysozyme Crystallization Solutions and Further Crystal Growth. Crystallography Reports, 2021, 66, 751-757.	0.1	4
100	Identification of the Precursor Cluster in the Crystallization Solution of Proteinase K Protein by Molecular Dynamics Methods. Crystals, 2022, 12, 484.	1.0	4
101	The experience in production of composite refraction lenses from beryllium. Crystallography Reports, 2017, 62, 25-30.	0.1	3
102	Evaluation of solution stability for two-component polydisperse systems by small-angle scattering. Journal of Physics: Conference Series, 2017, 941, 012069.	0.3	3
103	Optical and Structural Characterization of a Chronic Myeloid Leukemia DNA Biosensor. ACS Chemical Biology, 2018, 13, 1235-1242.	1.6	3
104	Octa-repeat domain of the mammalian prion protein mRNA forms stable A-helical hairpin structure rather than G-quadruplexes. Scientific Reports, 2019, 9, 2465.	1.6	3
105	X-Ray Solution Scattering Study of Four Escherichia coli Enzymes Involved in Stationary-Phase Metabolism. PLoS ONE, 2016, 11, e0156105.	1.1	2
106	Dual Role of the Active Site Residues of Thermus thermophilus 3-Isopropylmalate Dehydrogenase: Chemical Catalysis and Domain Closure. Biochemistry, 2016, 55, 560-574.	1.2	2
107	Optical Properties of Amorphous Perfluorinated Polymers in the Terahertz Range. Journal of Applied Spectroscopy, 2018, 85, 374-380.	0.3	2
108	Rapid Rock Nanoporosity Analysis Using Small Angle Scattering Fused with Imaging Data Based on Stochastic Reconstructions. , 2019, , .		2

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109	Combined Scheme of Reconstruction of the Particle Size Distribution Function Using Small-Angle Scattering Data. JETP Letters, 2020, 112, 591-595.	0.4	2
110	Untangling the Conformational Plasticity of V66M Human proBDNF Polymorphism as a Modifier of Psychiatric Disorder Susceptibility. International Journal of Molecular Sciences, 2022, 23, 6596.	1.8	2
111	Structural properties of Y1â€“xYbxNi2B2C synthesized at high pressure: EXAFS data analysis. Journal of Synchrotron Radiation, 2001, 8, 910-912.	1.0	1
112	Microfluidic Cell for Studying the Precrystallization Stage Structure of Protein Solutions by Small-Angle X-Ray Scattering. Crystallography Reports, 2018, 63, 713-718.	0.1	1
113	Combination of Minimization Schemes for Improving the Efficiency of Volume Particle Size Distribution Reconstructions from Silicasol Solutions by Small-Angle X-Ray Scattering. Physics of Atomic Nuclei, 2019, 82, 1576-1581.	0.1	1
114	Exploring RNA Oligomerization and Ligand Binding by Fluorescence Correlation Spectroscopy and Small Angle X-Ray Scattering. Methods in Molecular Biology, 2014, 1086, 321-334.	0.4	1
115	On the Theory of Reducing the Level of Statistical Noise and Filtering of 2D Images of Diffraction Tomography. Crystallography Reports, 2020, 65, 821-826.	0.1	1
116	The Role of Cations and Anions in the Formation of Crystallization Oligomers in Protein Solutions as Revealed by Combination of Small-Angle X-ray Scattering and Molecular Dynamics. Crystals, 2022, 12, 751.	1.0	1
117	EXAFS spectrum peculiarities of Y1â^'xYbxNi2B2C. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 470, 315-317.	0.7	0
118	Modelling of multicomponent polydisperse systems using small-angle scattering data. Journal of Physics: Conference Series, 2019, 1238, 012004.	0.3	0
119	Application of X-Ray Methods for Determining the Dimensions of Nanoparticles in the Nanosized Anataseâ€“Poly(N-vinylcaprolactam) System. Crystallography Reports, 2020, 65, 631-640.	0.1	0
120	The Ambiguity Issue in Solving Inverse Problems of Small-Angle Scattering: A Consistent Approach Using an Insulin Receptor-Related Receptor as an Example. Methods for Interpreting SAXS Data. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2021, 15, 270-283.	0.3	0
121	Searching for an Efficient Solution Reconstruction Algorithm in the Analysis of Small-Angle Scattering Data from Silicasol Solution. Crystallography Reports, 2021, 66, 758-764.	0.1	0
122	Modeling of polygonal halfâ€“loops dislocations in silicon single crystal using Xâ€“ray diffraction topoâ€“tomography data. Journal of Physics: Conference Series, 2021, 2036, 012015.	0.3	0
123	The USR domain of USF1 mediates NF-Y interactions and cooperative DNA binding. International Journal of Biological Macromolecules, 2021, 193, 401-413.	3.6	0
124	Software Tools for Biological Structural Analysis Using Small-Angle X-Ray Solution Scattering. , 2020, , 1-7.		0
125	Approaches for improving the quality of particle size distribution reconstructions from small-angle scattering data. Journal of Physics: Conference Series, 2020, 1686, 012059.	0.3	0
126	The Structural Features of Native Fibrin and Its Conjugates with Polyethylene Glycol and Vascular Endothelial Growth Factor according to Small-Angle X-Ray Scattering. Reviews and Advances in Chemistry, 2020, 10, 158-163.	0.2	0

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127	New approaches to three-dimensional reconstruction of dislocations in silicon by x-ray topo-tomography. Physics-Uspekhi, 0, , .	0.8	0