# Elena V Kudryashova

List of Publications by Year
in descending order



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|---|---|---|---|
| 60 papers | 1,281 citations | 471061 17 h-index | 500791 28 g-index |
| 65 all docs | 65 docs citations | 65 times ranked | 1123 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Application of high hydrostatic pressure for increasing activity and stability of enzymes. , 2000, 52, 320-331. | | 196 |
| 2 | New versatile approach for analysis of PEG content in conjugates and complexes with biomacromolecules based on FTIR spectroscopy.. Colloids and Surfaces B: Biointerfaces, 2016, 141, 36-43. | 2.5 | 75 |
| 3 | Enzyme-polyelectrolyte complexes in water-ethanol mixtures: Negatively charged groups artificially introduced into Î±-chymotrypsin provide additional activation and stabilization effects. , 1997, 55, 267-277. | | 73 |
| 4 | Structure and dynamics of egg white ovalbumin adsorbed at the air/water interface. European Biophysics Journal, 2003, 32, 553-562. | 1.2 | 53 |
| 5 | Protein adsorption at air-water interfaces: A combination of details. Biopolymers, 2004, 74, 131-135. | 1.2 | 51 |
| 6 | The chemical modification of Î±-chymotrypsin with both hydrophobic and hydrophilic compounds stabilizes the enzyme against denaturation in waterâ€"organic media. Protein Engineering, Design and Selection, 2001, 14, 683-689. | 1.0 | 40 |
| 7 | Thermodynamics and molecular insight in guestâ€"host complexes of fluoroquinolones with Î²-cyclodextrin derivatives, as revealed by ATR-FTIR spectroscopy and molecular modeling experiments. Analytical and Bioanalytical Chemistry, 2017, 409, 6451-6462. | 1.9 | 39 |
| 8 | Reversible self-association of ovalbumin at air-water interfaces and the consequences for the exerted surface pressure. Protein Science, 2005, 14, 483-493. | 3.1 | 37 |
| 9 | Molecular Details of Ovalbuminâˆ'Pectin Complexes at the Air/Water Interface:â€‰ A Spectroscopic Study. Langmuir, 2007, 23, 7942-7950. | 1.6 | 34 |
| 10 | Novel Prodrug of Doxorubicin Modified by Stearoylspermine Encapsulated into PEG-Chitosan-Stabilized Liposomes. Langmuir, 2016, 32, 10861-10869. | 1.6 | 33 |
| 11 | In Situ Observation of Chymotrypsin Catalytic Activity Change Actuated by Nonheating Low-Frequency Magnetic Field. ACS Nano, 2018, 12, 3190-3199. | 7.3 | 33 |
| 12 | Targeted delivery of anti-tuberculosis drugs to macrophages: targeting mannose receptors. Russian Chemical Reviews, 2018, 87, 374-391. | 2.5 | 27 |
| 13 | Catalytic activity of thermolysin under extremes of pressure and temperature: modulation by metal ions. BBA - Proteins and Proteomics, 1998, 1386, 199-210. | 2.1 | 26 |
| 14 | Solubilization and refolding of inclusion body proteins in reverse micelles. Analytical Biochemistry, 2003, 320, 234-238. | 1.1 | 25 |
| 15 | Structure and stability of anionic liposomes complexes with PEG-chitosan branched copolymer. Russian Journal of Bioorganic Chemistry, 2014, 40, 547-557. | 0.3 | 24 |
| 16 | Drug delivery systems for fluoroquinolones: New prospects in tuberculosis treatment. Russian Journal of Bioorganic Chemistry, 2017, 43, 487-501. | 0.3 | 23 |
| 17 | Enzyme-polyelectrolyte noncovalent complexes as catalysts for reactions in binary mixtures of polar organic solvents with water. Biotechnology Letters, 1995, 17, 1329. | 1.1 | 22 |
| 18 | Moxifloxacin interacts with lipid bilayer, causing dramatic changes in its structure and phase transitions. Chemistry and Physics of Lipids, 2020, 228, 104891. | 1.5 | 19 |

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| --- | --- | --- | --- |
| 19 | PEG-chitosan and glycol-chitosan for improvement of biopharmaceutical properties of recombinant L-asparaginase from Erwinia carotovora. Biochemistry (Moscow), 2015, 80, 113-119. | 0.7 | 18 |
| 20 | Effect of cross-linking on the inclusion complex formation of derivatized Î²-cyclodextrins with small-molecule drug moxifloxacin. Carbohydrate Research, 2020, 498, 108183. | 1.1 | 17 |
| 21 | Phosphatidylinositol Stabilizes Fluid-Phase Liposomes Loaded with a Melphalan Lipophilic Prodrug. Pharmaceutics, 2021, 13, 473. | 2.0 | 17 |
| 22 | Stabilization and activation of Î±-chymotrypsin in waterâ€"organic solvent systems by complex formation with oligoamines. Protein Engineering, Design and Selection, 2003, 16, 303-309. | 1.0 | 16 |
| 23 | Chiral Heteroditopic Baskets Designed from Triazolated Calixarenes and Short Peptides. Chemistry - A European Journal, 2016, 22, 12415-12423. | 1.7 | 16 |
| 24 | Magnetic nanorods for remote disruption of lipid membranes by non-heating low frequency magnetic field. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 21, 102065. | 1.7 | 15 |
| 25 | The formation of quasi-regular polymeric network of cross-linked sulfobutyl ether derivative of Î²-cyclodextrin synthesized with moxifloxacin as a template. Reactive and Functional Polymers, 2021, 159, 104811. | 2.0 | 15 |
| 26 | Computer simulation of the Receptorâ€"Ligand Interactions of Mannose Receptor CD206 in Comparison with the Lectin Concanavalin A Model. Biochemistry (Moscow), 2022, 87, 54-69. | 0.7 | 15 |
| 27 | Plant Alkylbenzenes and Terpenoids in the Form of Cyclodextrin Inclusion Complexes as Antibacterial Agents and Levofloxacin Synergists. Pharmaceuticals, 2022, 15, 861. | 1.7 | 15 |
| 28 | Galactonolactone oxidoreductase from Trypanosoma cruzi employs a FAD cofactor for the synthesis of vitamin C. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 545-552. | 1.1 | 14 |
| 29 | â€œReagent-freeâ€•l-asparaginase activity assay based on CD spectroscopy and conductometry. Analytical and Bioanalytical Chemistry, 2016, 408, 1183-1189. | 1.9 | 14 |
| 30 | A study of the physicochemical properties and structure of moxifloxacin complex with methyl-Î²-cyclodextrin. Colloid Journal, 2017, 79, 668-676. | 0.5 | 14 |
| 31 | The Effect of Molecular Architecture of Sulfobutyl Ether Î²-Cyclodextrin Nanoparticles on Physicochemical Properties of Complexes with Moxifloxacin. Colloid Journal, 2018, 80, 312-319. | 0.5 | 13 |
| 32 | Spectroscopy Approach for Highly-Efficient Screening of Lectin-Ligand Interactions in Application for Mannose Receptor and Molecular Containers for Antibacterial Drugs. Pharmaceuticals, 2022, 15, 625. | 1.7 | 13 |
| 33 | Stability of ?-chymotrypsin conjugated with poly (ethylene glycols) and proxanols at high temperature and in watercosolvent mixtures. Biotechnology Letters, 1996, 10, 849-854. | 0.5 | 12 |
| 34 | Formation of quasi-regular compact structure of poly(methacrylic acid) upon an interaction with Î±-chymotrypsin. BBA - Proteins and Proteomics, 2001, 1550, 129-143. | 2.1 | 12 |
| 35 | Modulation of the adsorption properties at airâ€"water interfaces of complexes of egg white ovalbumin with pectin by the dielectric constant. Journal of Colloid and Interface Science, 2008, 318, 430-439. | 5.0 | 12 |
| 36 | Moxifloxacin Micronization via Supercritical Antisolvent Precipitation. Russian Journal of Physical Chemistry B, 2017, 11, 1153-1162. | 0.2 | 12 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Structure and stability of fluoroquinolone-(2-hydroxypropyl)-Î²-cyclodextrin complexes as perspective antituberculosis drugs. Moscow University Chemistry Bulletin, 2016, 71, 1-6. | 0.2 | 11 |
| 38 | Micronization of levofloxacin by supercritical antisolvent precipitation. Russian Journal of Physical Chemistry B, 2016, 10, 1201-1210. | 0.2 | 11 |
| 39 | Physicochemical Properties of the Inclusion Complex of Moxifloxacin with Hydroxypropyl-Î²-Cyclodextrin Synthesized by RESS. Russian Journal of Physical Chemistry B, 2018, 12, 1193-1204. | 0.2 | 11 |
| 40 | Regulation of Properties of Lipid Membranes by Interaction with 2-Hydroxypropyl Î²-Cyclodextrin: Molecular Details. Russian Journal of Bioorganic Chemistry, 2020, 46, 692-701. | 0.3 | 11 |
| 41 | A Spectral Approach to Study Interaction between Chitosan Modified with Mannose and Concavalin A for the Creation of Address Delivery Systems of Antituberculosis Drugs. Moscow University Chemistry Bulletin, 2020, 75, 213-217. | 0.2 | 10 |
| 42 | Monomer Formation and Function of <i>p</i>â€Hydroxybenzoate Hydroxylase in Reverse Micelles and in Dimethylsulfoxide/Water Mixtures. ChemBioChem, 2008, 9, 413-419. | 1.3 | 9 |
| 43 | Experimental Methods to Study the Mechanisms of Interaction of Lipid Membranes with Low-Molecular-Weight Drugs. Russian Journal of Bioorganic Chemistry, 2020, 46, 480-497. | 0.3 | 9 |
| 44 | Physical and Chemical Properties of the Guestâ€"Host Inclusion Complexes of Cyprofloxacin with Î²-Cyclodextrin Derivatives. Moscow University Chemistry Bulletin, 2020, 75, 218-224. | 0.2 | 9 |
| 45 | Improvement of Biocatalytic Properties and Cytotoxic Activity of L-Asparaginase from Rhodospirillum rubrum by Conjugation with Chitosan-Based Cationic Polyelectrolytes. Pharmaceuticals, 2022, 15, 406. | 1.7 | 9 |
| 46 | Application of PEG-chitosan copolymers for regulation of catalytic properties of enzymes for medical application using recombinant Erwinia carotovora L-asparaginase as an example. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2014, 8, 252-259. | 0.2 | 8 |
| 47 | Regulation of acid phosphatase in reverse micellar system by lipids additives: Structural aspects. Journal of Colloid and Interface Science, 2011, 353, 490-497. | 5.0 | 7 |
| 48 | Regulation of Catalytic Activity of Recombinant L-Asparaginase from Rhodospirillum rubrum by Conjugation with a PEG-Chitosan Copolymer. Moscow University Chemistry Bulletin, 2018, 73, 185-191. | 0.2 | 7 |
| 49 | Chemical Modification Causes Similar Change in Dependence on Water Activity of Chymotrypsin Hydration and Catalysis in Hexane. Biocatalysis and Biotransformation, 2002, 20, 161-166. | 1.1 | 6 |
| 50 | The formation of conjugates with PEGâ€"chitosan improves the biocatalytic efficiency and antitumor activity of L-asparaginase from Erwinia carotovora. Moscow University Chemistry Bulletin, 2016, 71, 122-126. | 0.2 | 6 |
| 51 | Bacterial recombinant L-asparaginases: Properties, structure, and anti-proliferative activity. Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry, 2015, 9, 325-338. | 0.2 | 5 |
| 52 | Cross-linking as a tool for enhancement of transfection efficiency of cationic vectors. European Polymer Journal, 2015, 69, 110-120. | 2.6 | 5 |
| 53 | Improved Enzymatic Assay and Inhibition Analysis of Redox Membranotropic Enzymes, AtGALDH and TcGAL, Using a Reversed Micellar System. Analyticaâ€"A Journal of Analytical Chemistry and Chemical Analysis, 2022, 3, 36-53. | 0.8 | 5 |
| 54 | Effect of glycol chitosan on functional and structural properties of anionic liposomes. Moscow University Chemistry Bulletin, 2016, 71, 167-171. | 0.2 | 4 |

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|---|---|---|---|
| 55 | Regulation of catalytic activity of acid phosphatase by lipids in a reverse micellar system. Biochemistry (Moscow), 2009, 74, 342-349. | 0.7 | 3 |
| 56 | PEG-Chitosan as a Perspective Stabilizing Agent for Liposomal Suspensions: The Influence of the Molecular Weight and Degree of PEGylation on the Physicochemical Properties of the Complex. Moscow University Chemistry Bulletin, 2018, 73, 69-73. | 0.2 | 3 |
| 57 | FTIR-based L-asparaginase activity assay enables continuous measurements in optically dense media including blood plasma. Analytical Biochemistry, 2020, 598, 113694. | 1.1 | 3 |
| 58 | Cholesterol Significantly Affects the Interactions between Pirfenidone and DPPC Liposomes: Spectroscopic Studies. Biophysica, 2022, 2, 79-88. | 0.6 | 3 |
| 59 | Adsorption Properties of Mesoporous Silica Gel with Î²-Cyclodextrin as a Pore-Forming Agent Relative to Moxifloxacin. Moscow University Chemistry Bulletin, 2018, 73, 192-198. | 0.2 | 2 |
| 60 | Lytic enzymes of staphylococcal phages: Correlation between secondary structure and stability. Moscow University Chemistry Bulletin, 2016, 71, 7-11. | 0.2 | 1 |