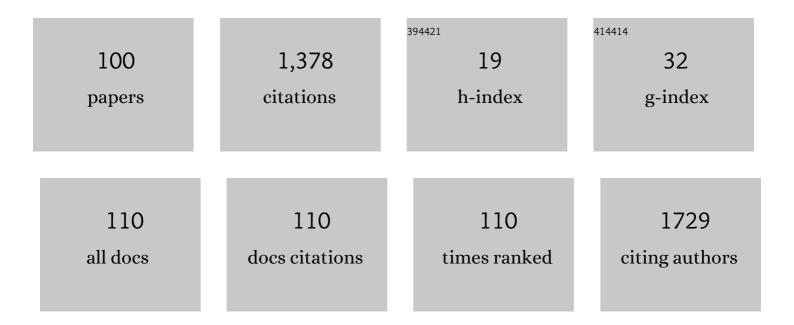
List of Publications by Year in descending order

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Μυσειλν Ρεκλάτ

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Novel Hydrogel Material with Tailored Internal Architecture Modified by "Bio―Amphiphilic Components—Design and Analysis by a Physico-Chemical Approach. Gels, 2022, 8, 115. | 4.5 | 9 |
| 2 | Gradient Hydrogels—Overview of Techniques Demonstrating the Existence of a Gradient. Polymers, 2022, 14, 866. | 4.5 | 1 |
| 3 | Diffusion of dyes in polyelectrolyte-surfactant hydrogels. RSC Advances, 2022, 12, 13242-13250. | 3.6 | 1 |
| 4 | Hyaluronan interactions with cationic surfactants – Insights from fluorescence resonance energy transfer and anisotropy techniques. International Journal of Biological Macromolecules, 2022, 211, 107-115. | 7.5 | 4 |
| 5 | Calcium carbonate particles: synthesis, temperature and time influence on the size, shape, phase, and their impact on cell hydroxyapatite formation. Journal of Materials Chemistry B, 2021, 9, 8308-8320. | 5.8 | 20 |
| 6 | Non-Equilibrium Thermodynamics View on Kinetics of Autocatalytic Reactions—Two Illustrative Examples. Molecules, 2021, 26, 585. | 3.8 | 2 |
| 7 | Cholesterol Effect on Membrane Properties of Cationic Ion Pair Amphiphile Vesicles at Different Temperatures. Langmuir, 2021, 37, 2436-2444. | 3.5 | 4 |
| 8 | Polarity-Based Sequential Extraction as a Simple Tool to Reveal the Structural Complexity of Humic Acids. Agronomy, 2021, 11, 587. | 3.0 | 7 |
| 9 | Interactions between Cationic Ion Pair Amphiphile Vesicles and Hyaluronan—A Physicochemical Study. Langmuir, 2021, 37, 8525-8533. | 3.5 | 1 |
| 10 | Thermodynamic Analysis of the Landolt-Type Autocatalytic System. Catalysts, 2021, 11, 1300. | 3.5 | 0 |
| 11 | TAILORING THE INTERNAL MICROSTRUCTURE OF THE HYDROGELS BASED ON POLY-HEMA TARGETED FOR DRUG DELIVERY SYSTEMS. , 2021, , . | | 0 |
| 12 | Hyaluronan-Arginine Interactions—An Ultrasound and ITC Study. Polymers, 2020, 12, 2069. | 4.5 | 7 |
| 13 | Editorial: Biopolymer-Based Hydrogels – Ubiquitous and Prospective Materials. Frontiers in Materials, 2020, 7, . | 2.4 | 1 |
| 14 | Study of cholesterol's effect on the properties of catanionic vesicular systems: Comparison of light-scattering results with ultrasonic and fluorescence spectroscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 607, 125526. | 4.7 | 4 |
| 15 | Thermodynamic Driving Forces and Chemical Reaction Fluxes; Reflections on the Steady State. Molecules, 2020, 25, 699. | 3.8 | 6 |
| 16 | Gradient Hydrogels—The State of the Art in Preparation Methods. Polymers, 2020, 12, 966. | 4.5 | 17 |
| 17 | Hysteresis during heating and cooling of hyaluronan solutions in water observed by means of ultrasound velocimetry. International Journal of Biological Macromolecules, 2020, 165, 2419-2424. | 7.5 | 4 |
| 18 | The study of the hydrogel systems with micellar nanodomains and the effect of the ph changes on their properties. , 2020, , . | | 0 |

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| 19 | Study on viscoelastic properties of phase-separated hydrogels by time-temperature superposition principle. AIP Conference Proceedings, 2019, , . | 0.4 | 0 |
| 20 | A simple technique for assessing the cuticular diffusion of humic acid biostimulants. Plant Methods, 2019, 15, 83. | 4.3 | 11 |
| 21 | Characterization of humic acids in a continuous-feeding vermicomposting system with horse manure. Waste Management, 2019, 99, 1-11. | 7.4 | 30 |
| 22 | DEAE-dextran hydrochloride behaviour in aqueous solution—The effect of ionic strength and concentration. Carbohydrate Polymers, 2019, 220, 163-169. | 10.2 | 4 |
| 23 | Transport of a model diffusion probe in polyelectrolyte-surfactant hydrogels. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 573, 73-79. | 4.7 | 6 |
| 24 | Compositional and Temperature Effects on the Rheological Properties of Polyelectrolyte–Surfactant Hydrogels. Polymers, 2019, 11, 927. | 4.5 | 19 |
| 25 | ATR-FTIR spectroscopy and thermogravimetry characterization of water in polyelectrolyte-surfactant hydrogels. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 575, 1-9. | 4.7 | 17 |
| 26 | Ultrasonic study of hyaluronan interactions with Septonex—A pharmaceutical cationic surfactant. Carbohydrate Polymers, 2019, 204, 17-23. | 10.2 | 7 |
| 27 | Fluorescence Study of Aggregation Behaviour of Cationic Surfactant Carbethopendecinium Bromide and its Comparison with Cetyltrimethylammonium Bromide. Tenside, Surfactants, Detergents, 2019, 56, 300-305. | 1.2 | 3 |
| 28 | Interactions of hyaluronan with oppositely charged surfactants in very diluted solutions in water. International Journal of Biological Macromolecules, 2018, 112, 241-249. | 7.5 | 4 |
| 29 | Facile synthesis and rheological characterization of nanocomposite hyaluronan-organoclay hydrogels. International Journal of Biological Macromolecules, 2018, 111, 680-684. | 7.5 | 8 |
| 30 | Rates of Reactions as a Mathematical Consequence of the Permanence of Atoms and the Role of Independent Reactions in the Description of Reaction Kinetics. Frontiers in Chemistry, 2018, 6, 287. | 3.6 | 2 |
| 31 | Thermodynamic Analysis of Chemically Reacting Mixtures—Comparison of First and Second Order Models. Frontiers in Chemistry, 2018, 6, 35. | 3.6 | 3 |
| 32 | Buccal adhesive films with moisturizer- the next level for dry mouth syndrome?. International Journal of Pharmaceutics, 2018, 550, 309-315. | 5.2 | 20 |
| 33 | Properties in aqueous solution of homo- and copolymers of vinylphosphonic acid derivatives obtained by UV-curing. Macromolecular Research, 2017, 25, 214-221. | 2.4 | 7 |
| 34 | Rheological properties of gels formed by physical interactions between hyaluronan and cationic surfactants. Carbohydrate Polymers, 2017, 170, 176-181. | 10.2 | 15 |
| 35 | Hyaluronic acid in complexes with surfactants: The efficient tool for reduction of the cytotoxic effect of surfactants on human cell types. International Journal of Biological Macromolecules, 2017, 103, 1276-1284. | 7.5 | 13 |
| 36 | A study of zwitterionic/cationic vesicle formation and the influence of hyaluronan on this formation. Colloid and Polymer Science, 2017, 295, 1131-1140. | 2,1 | 0 |

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| 37 | Study of interactions between hyaluronan and cationic surfactants by means of calorimetry, turbidimetry, potentiometry and conductometry. Carbohydrate Polymers, 2017, 157, 1837-1843. | 10.2 | 10 |
| 38 | A practical comparison of photon correlation and cross-correlation spectroscopy in nanoparticle and microparticle size evaluation. Colloid and Polymer Science, 2017, 295, 67-74. | 2.1 | 4 |
| 39 | Production of Polyhydroxyalkanoates Using Hydrolyzates of Spruce Sawdust: Comparison of Hydrolyzates Detoxification by Application of Overliming, Active Carbon, and Lignite. Bioengineering, 2017, 4, 53. | 3.5 | 61 |
| 40 | Fluorescence study of freeze-drying as a method for support the interactions between hyaluronan and hydrophobic species. PLoS ONE, 2017, 12, e0184558. | 2.5 | 7 |
| 41 | Thermodynamic Analysis of Chemically Reacting Mixtures and Their Kinetics: Example of a Mixture of Three Isomers. ChemPhysChem, 2016, 17, 3333-3341. | 2.1 | 4 |
| 42 | The spectrometric characterization of lipids extracted from lignite samples from various coal basins. Organic Geochemistry, 2016, 95, 34-40. | 1.8 | 12 |
| 43 | Poly(alkylene-H-phosphonate)s obtained by direct esterification and oxidation of hypophosphorous acid with ethylene glycol. Journal of Macromolecular Science - Pure and Applied Chemistry, 2016, 53, 49-54. | 2.2 | 1 |
| 44 | The formation of mixed micelles of sugar surfactants and phospholipids and their interactions with hyaluronan. Colloid and Polymer Science, 2016, 294, 823-831. | 2.1 | 13 |
| 45 | Long-term degradation study of hyaluronic acid in aqueous solutions without protection against microorganisms. Carbohydrate Polymers, 2016, 137, 664-668. | 10.2 | 21 |
| 46 | The change in excited-state proton transfer kinetics of 1-naphthol in micelles upon the binding of polymers: The influence of hyaluronan hydration. Carbohydrate Polymers, 2015, 129, 168-174. | 10.2 | 2 |
| 47 | Hyaluronic acid as a modulator of the cytotoxic effects of cationic surfactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 483, 155-161. | 4.7 | 11 |
| 48 | The Thermodynamic Driving Force for Kinetics in General and Enzyme Kinetics in Particular. ChemPhysChem, 2015, 16, 884-885. | 2.1 | 11 |
| 49 | Study of water-extractable fractions from South Moravian lignite. Environmental Earth Sciences, 2015, 73, 3873-3885. | 2.7 | 18 |
| 50 | Kinetics of long-term degradation of different molar mass hyaluronan solutions studied by SEC-MALLS. Polymer Degradation and Stability, 2015, 111, 257-262. | 5.8 | 18 |
| 51 | Thermal degradation of high molar mass hyaluronan in solution and in powder; comparison with BSA. Polymer Degradation and Stability, 2015, 120, 107-113. | 5.8 | 29 |
| 52 | A simple microviscometric approach based on Brownian motion tracking. Review of Scientific Instruments, 2015, 86, 023710. | 1.3 | 3 |
| 53 | Determination of Critical Parameters of Drug Substance Influencing Dissolution: A Case Study. BioMed Research International, 2014, 2014, 1-9. | 1.9 | 5 |
| 54 | Formation and Dissociation of the Acridine Orange Dimer as a Tool for Studying Polyelectrolyte–Surfactant Interactions. Langmuir, 2014, 30, 8726-8734. | 3.5 | 19 |

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| 55 | High-Resolution Ultrasonic Spectroscopy Study of Interactions between Hyaluronan and Cationic Surfactants. Langmuir, 2014, 30, 11866-11872. | 3.5 | 21 |
| 56 | Hydrogen peroxide oxidation of humic acids and lignite. Fuel, 2014, 134, 406-413. | 6.4 | 97 |
| 57 | Densitometry and ultrasound velocimetry of hyaluronan solutions in water and in sodium chloride solution. Carbohydrate Polymers, 2014, 106, 453-459. | 10.2 | 14 |
| 58 | Effect of CTAB and CTAB in the presence of hyaluronan on selected human cell types. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 460, 204-208. | 4.7 | 21 |
| 59 | Continuum Thermodynamics of Mixture of Linear Fluids. , 2014, , 143-277. | | Ο |
| 60 | Antibacterial activity and cell viability of hyaluronan fiber with silver nanoparticles. Carbohydrate Polymers, 2013, 92, 1177-1187. | 10.2 | 81 |
| 61 | The effect of hyaluronan on the aggregation of hydrophobized amino acids—A fluorescence study. Carbohydrate Polymers, 2013, 97, 34-37. | 10.2 | 3 |
| 62 | A note on an alternative DSC approach to study hydration of hyaluronan. Carbohydrate Polymers, 2012, 89, 1009-1011. | 10.2 | 1 |
| 63 | Removal of metal ions from multi-component mixture using natural lignite. Fuel Processing Technology, 2012, 101, 29-34. | 7.2 | 41 |
| 64 | Hyaluronan-surfactant interactions in physiological solution studied by tensiometry and fluorescence probe techniques. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 391, 25-31. | 4.7 | 14 |
| 65 | Fluorescence Spectroscopy Study of Hyaluronan–Phospholipid Interactions. Behavior Research Methods, 2011, , 235-255. | 4.0 | 2 |
| 66 | Macroscopic derivation of the kinetic mass-action law. Reaction Kinetics, Mechanisms and Catalysis, 2010, 99, 29. | 1.7 | 3 |
| 67 | Calorimetric and light scattering study of interactions and macromolecular properties of native and hydrophobically modified hyaluronan. Carbohydrate Polymers, 2010, 81, 855-863. | 10.2 | 13 |
| 68 | Affinity and Reaction Rates: Reconsideration of Theoretical Background and Modelling Results. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2009, 64, 289-299. | 1.5 | 6 |
| 69 | Lignite pre-treatment and its effect on bio-stimulative properties of respective lignite humic acids. Soil Biology and Biochemistry, 2009, 41, 1894-1901. | 8.8 | 33 |
| 70 | Lignite humic acids aggregates studied by high resolution ultrasonic spectroscopy. Journal of Thermal Analysis and Calorimetry, 2009, 96, 637-643. | 3.6 | 14 |
| 71 | Correlation of humic substances chemical properties and their thermo-oxidative degradation kinetics. Journal of Thermal Analysis and Calorimetry, 2009, 98, 207-214. | 3.6 | 2 |
| 72 | Fluoride Anion Binding by Natural Lignite (South Moravian Deposit of Vienna Basin). Water, Air, and Soil Pollution, 2009, 197, 303-312. | 2.4 | 10 |

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| 73 | Sorption of metal ions on lignite and the derived humic substances. Journal of Hazardous Materials, 2009, 161, 559-564. | 12.4 | 105 |
| 74 | Transport of copper(II) ions in humic gel—New results from diffusion couple. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 349, 96-101. | 4.7 | 19 |
| 75 | Effect of new hydrophobic modification of hyaluronan on its solution properties: evaluation of self-aggregation. Carbohydrate Polymers, 2009, 76, 443-448. | 10.2 | 22 |
| 76 | Thermodynamic framework for design of reaction rate equations and schemes. Collection of Czechoslovak Chemical Communications, 2009, 74, 1375-1401. | 1.0 | 8 |
| 77 | Antioxidant effect of lignite humic acids and its salts on the thermo-oxidative stability/degradation of polyvinyl alcohol blends. Environmental Chemistry Letters, 2008, 6, 241-245. | 16.2 | 8 |
| 78 | Aggregation behavior of novel hyaluronan derivatives—a fluorescence probe study. Colloid and Polymer Science, 2008, 286, 1681-1685. | 2.1 | 8 |
| 79 | Behaviour of partially soluble humic acids in aqueous suspension. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 318, 106-110. | 4.7 | 22 |
| 80 | Comparison of Copper Sorption on Lignite and on Soils of Different Types and Their Humic Acids. Environmental Engineering Science, 2008, 25, 1123-1128. | 1.6 | 8 |
| 81 | New insights into aggregation and conformational behaviour of humic substances: Application of high resolution ultrasonic spectroscopy. Organic Geochemistry, 2007, 38, 2098-2110. | 1.8 | 21 |
| 82 | Affinity and Reaction Rates: Reconsideration of Experimental Data. Helvetica Chimica Acta, 2007, 90, 1897-1916. | 1.6 | 5 |
| 83 | The kinetics of thermo-oxidative humic acids degradation studied by isoconversional methods. Journal of Thermal Analysis and Calorimetry, 2007, 89, 957-964. | 3.6 | 8 |
| 84 | Detailed balance in reaction kinetics — Consequence of mass conservation?. Reaction Kinetics and Catalysis Letters, 2007, 90, 323-329. | 0.6 | 5 |
| 85 | Untypical rheological behaviour of the lignite–carboxymethylcellulose–water dispersion system. Colloid and Polymer Science, 2007, 285, 865-872. | 2.1 | 3 |
| 86 | New model for equilibrium sorption of metal ions on solid humic acids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 286, 126-133. | 4.7 | 23 |
| 87 | Stability evaluation of n-alkyl hyaluronic acid derivates by DSC and TG measurement. Journal of Thermal Analysis and Calorimetry, 2006, 83, 341-348. | 3.6 | 26 |
| 88 | The role of various compounds in humic acids stability studied by TG and DTA. Journal of Thermal Analysis and Calorimetry, 2006, 84, 715-720. | 3.6 | 9 |
| 89 | Solubility and dissociation of lignitic humic acids in water suspension. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 252, 157-163. | 4.7 | 54 |
| 90 | Evaluation of oxidation stability of lignite humic substances by DSC induction period measurement. Die Naturwissenschaften, 2005, 92, 336-340. | 1.6 | 9 |

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| 91 | Modification of flow properties of concentrated lignite dispersions. Colloid and Polymer Science, 2005, 284, 112-116. | 2.1 | 2 |
| 92 | Thermodynamics and foundations of mass-action kinetics. Progress in Reaction Kinetics and Mechanism, 2005, 30, 3-113. | 2.1 | 32 |
| 93 | Thermoanalytical investigation of lignite humic acids fractions. Journal of Thermal Analysis and Calorimetry, 2004, 76, 55-65. | 3.6 | 50 |
| 94 | What can kinetics learn from rational thermodynamics. Chemical Engineering Science, 2004, 59, 4103-4112. | 3.8 | 9 |
| 95 | Inverse gas chromatography of liquid polybutadienes. Polymer, 2002, 43, 1013-1015. | 3.8 | 5 |
| 96 | On the miscibility of liquid polybutadienes. Journal of Applied Polymer Science, 2000, 78, 1628-1635. | 2.6 | 2 |
| 97 | On the general principles of transient behaviour of heterogeneous catalytic reactions. Applied Catalysis A: General, 2000, 199, 221-226. | 4.3 | 5 |
| 98 | Concentration forcing in the kinetic research in heterogeneous catalysis. Applied Catalysis A: General, 1999, 177, 69-77. | 4.3 | 4 |
| 99 | Rate-limiting step. Does it exist in the non-steady state?. Chemical Engineering Science, 1997, 52, 2291-2297. | 3.8 | 8 |
| 100 | Modelling study of transient behaviour of elimination reactions of alcohols and amines on oxide catalysts. Journal of Molecular Catalysis A, 1997, 123, 131-139. | 4.8 | 1 |