

**Affinity of zinc and copper ions for insulin monomers**

Gavrilova, Julia; Tõugu, Vello; Palumaa, Peep Metallomics 2014 / p. 1296-1300 : ill

**Biophysical studies of the amyloid beta-peptide : interactions with metal ions and small molecules**

Wärmländer, Sebastian; Tiiman, Ann; Abelein, Axel Chembiochem : a European journal of chemical biology 2013 / p. 1692-1704 : ill

**Computational study of cyclohexylhemicucurbiturils = Tsükloheksüülhemikukurbituriilide arvutuskeemiline modelleerimine**Ören, Mario 2015 [https://www.esther.ee/record=b4522693\\*est](https://www.esther.ee/record=b4522693*est)**Die Wirkung der Kalium- und Bariumionen auf die Geschwindigkeit einer Ionenreaktion im Bereich kleiner Gesamtionenstärke**Talts, Erika 1943 [https://www.esther.ee/record=b1419052\\*est](https://www.esther.ee/record=b1419052*est) <https://digikogu.taltech.ee/et/item/ffa9e9ce-049b-4398-b878-4544e0049af6>**Direct competition of ATCUN peptides with human serum albumin for copper(II) ions determined by LC-ICP MS**Noormägi, Andra; Golubeva, Tatjana; Berntsson, Elina; Wärmländer, Sebastian K.T.S.; Tõugu, Vello; Palumaa, Peep ACS omega 2023 / p. 33912-33919 <https://doi.org/10.1021/acsomega.3c04649>**Effect of Zn(II) and Cu(II) ions on aggregation and fibrillation of amyloid-beta(1-42) peptide**

Palumaa, Peep; Karafin, Ann; Zovo, Kairit; Chung, Roger S.; Howells, Claire; West, Adrian K.; Tõugu, Vello Sinapsa Neuroscience Conference '09 : Ljubljana, 26-29 September 2009 : abstract book 2009 / p. 34

**Effects of bottom-height changes on maximal exchange-flow estimates in channels with quadratic shape cross sections**Laanearu, Janek; Davies, Peter A.; Koppel, Tiit Proceedings of 32nd Congress of IAHR : Venice, Italy, July 1-6, 2007 2007 / ? p <https://www.iahr.org/library/infor?pid=15300>**Effects of Zn<sup>2+</sup> ions and environmental conditions on the fibrillization of insulin = Zn<sup>2+</sup> ioonide ja keskkonnatingimuste mõju insuliini fibrillatsioonile**Noormägi, Andra 2018 <https://digi.lib.ttu.ee/i/?10378>**Fosfaatioonide potentsiomeetriline tiitrimine looduslikes veteis**

Hödreibärv, Helvi; Kerm, Karin; Vaarmann, Aini; Help, Kalju Комплексная переработка фосфатного сырья. Анализ природных и технических объектов 1989 / lk. 85-92

**Functional characterization of the cellular copper proteome = Rakulise vase proteoomi funtsionaalne iseloomustamine**

Zovo, Kairit 2011

**Impact of chelating ions on Cd<sup>2+</sup> sorption with apatites**

Tönsuaadu, Kaia; Vatter, Karin; Peld, Merike; Mikli, Valdek 5th International Symposium on Inorganic Phosphate Materials '05 : 2nd IMPHOS Workshop : Kasugai, Japan, September 6-8, 2005 : book of abstracts 2005 / p. 80

**Influence of ferroud/ferric ions to the efficiency of aqueous photocatalytic oxidation of pollutants in groundwater**

Klauson, Deniss; Portjanskaja, Elina; Katšina, Anna; Preis, Sergei; Kallas, Juha 3rd European Meeting on Solar Chemistry and Photocatalysis : Environmental Applications : book of abstracts 2004 / p. 103-104

**Influence of ferrous/ferric ions to the efficiency of aqueous photocatalytic oxidation of 2-ethoxy ethanol**

Klauson, Deniss; Preis, Sergei Abstracts of the International Conference "Eco-Balt 2004" 2004 / p. 7-8

**Interactions of Alzheimer's amyloid-β peptides with Zn(II) and Cu(II) ions = Alzheimeri amüloid-β peptiidide interaktsioonid Zn(II) ja Cu(II) ioonidega**Tiiman, Ann 2012 [https://www.esther.ee/record=b2866174\\*est](https://www.esther.ee/record=b2866174*est)**Kaarium- ja baariumiooni toime ioonreaktsioonile väikeste üldioontugevuste juures**Talts, Erika 1940 [http://www.esther.ee/record=b2141292\\*est](http://www.esther.ee/record=b2141292*est)**Macroporous silicon-wollastonite scaffold with Sr/Se/Zn/Mg-substituted hydroxyapatite/chitosan hydrogel**Ressler, Antonia; Kamboj, Nikhil Kumar; Ledinski, Maja; Rogina, Anamarja; Urlic, Inga; Hussainova, Irina; Ivankovic, Hrvoje; Ivankovic, Marica Open Ceramics 2022 / art. 100306 <https://doi.org/10.1016/j.oceram.2022.100306> Journal metrics at Scopus Article at Scopus Article at WOS**Mercury ion binding to apolipoprotein E variants ApoE2, ApoE3, and ApoE4 : similar binding affinities but different structure induction effects**Berntsson, Elina; Sardis, Merlin; Noormägi, Andra; Jarvet, Jüri; Roos, Per M.; Tõugu, Vello; Gräslund, Astrid; Wärmländer, Sebastian K.T.S. ACS omega 2022 / p. 28924-28931 <https://doi.org/10.1021/acsomega.2c02254> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Natural and synthetic apatites as sorbents for Cd<sup>2+</sup> and Cr<sup>3+</sup> ions from aqueous solutions**

Peld, Merike; Tönsuaadu, Kaia; Bender, Villem Proceedings of the Estonian Academy of Sciences. Chemistry 2004 / 2, p. 75-90 : ill

**Natural and synthetic apatites as sorbents for Cd<sup>2+</sup> ions from aqueous solutions**

Peld, Merike; Tönsuaadu, Kaia; Bender, Villem Phosphorus, sulfur, and silicon and the related elements 2002 / 8/9, August-September, XVth International Conference on Phosphorus Chemistry (ICPC 15). Part II, p. 2239

**Natural and synthetic apatites as sorbents for Cd<sup>2+</sup> ions from aqueous solutions**

Peld, Merike; Tönsuaadu, Kaia; Bender, Villem XVth International Conference on Phosphorus Chemistry (ICPC 15) : Sendai, Japan, July 29 - August 3, 2001 : program and abstracts 2001 / p. PB109

**Quantum chemical study of the merostabilization of carbon radicals and radical ions**

Jürimäe, T.; Karelson, Mati 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 44

**Quantum-chemical modeling of solvated first row transition metal ions = Solvateeritud üleminekumetalli-ionide kvantkeemiline modelleerimine**

Uudsemaa, Merle 2006 [https://www.esther.ee/record=b2146117\\*est](https://www.esther.ee/record=b2146117*est)

**Redox and metal ion binding properties of human insulin-like growth factor 1 determined by electrospray ionization mass spectrometry**

Smirnova, Julia; Muhhina, Jekaterina; Tõugu, Vello; Palumaa, Peep Biochemistry 2012 / p. 5851-5859 : ill  
<https://pubs.acs.org/doi/10.1021/bi300494s>

**Relations between metal ion characteristics and adsorption performance of graphene oxide: A comprehensive experimental and theoretical study**

Kong, Qiaoping; Preis, Sergei; Li, Leli; Luo, Pei; Wei, Cong; Li, Zemin; Hu, Yun; Wei, Chaohai Separation and purification technology 2020 / art. 115956 ; 8 p. : ill <https://doi.org/10.1016/j.seppur.2019.115956> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Removal of Cd<sup>2+</sup> and Mn<sup>2+</sup> ions from aqueous solutions by synthetic cation substituted calcium-carbonateapatite**

Tönsuaadu, Kaia; Peld, Merike; Veiderma, Mihkel Toxicological and environmental chemistry 1997 / p. 145-154: ill

**Role of metal ions in amyloidogenic properties of insulin and superoxide dismutase = Metallioonide roll insuliini ja superoksiidi dismutaasi amüloidogeensetes omadustes**

Gavrilova, Julia 2022 <https://doi.org/10.23658/taltech.44/2022> <https://digikogu.taltech.ee/et/item/693de590-2d9f-43d6-989e-ebac0544151d>  
[https://www.esther.ee/record=b5511706\\*est](https://www.esther.ee/record=b5511706*est)

**Simultaneous sorption of Cd and Zn ions on synthetic apatites from aqueous solutions**

Peld, Merike; Tönsuaadu, Kaia; Veiderma, Mihkel Phosphorus research bulletin 1999 / Special issue: Proceedings of the Third International Symposium on Inorganic Phosphate Materials '99 : Villeneuve d'Ascq, France, September 14-16, 1999, p. 347-352: ill

**Solution-mediated inversion of SnSe to Sb<sub>2</sub>Se<sub>3</sub> thin-films**

Polivtseva, Svetlana; Kois, Julia; Krushilina, Tatiana; Kaupmees, Reelika; Klopov, Mihail; Molaiyan, Palanivel; van Gog, Heleen; van Huis, Marijn A.; Volobujeva, Olga Nanomaterials 2022 / art. 2898 <https://doi.org/10.3390/nano12172898> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Sorption and desorption of Cd<sup>2+</sup> and Zn<sup>2+</sup> ions in apatite-aqueous systems**

Peld, Merike; Tönsuaadu, Kaia; Bender, Villem Environmental science and technology 2004 / 21, p. 5626-5631 : ill

**Spin state of Co<sup>2+</sup>, Co<sup>3+</sup> and Ni<sup>3+</sup> ions on solution**

Uudsemaa, Merle; Tamm, Toomas 11th International Conference on the Applications of Density Functional Theory in Chemistry and Physics 2005 / p. P225

**Studies on SO<sub>4</sub><sup>2-</sup>-ion incorporation into apatite structure**

Tönsuaadu, Kaia; Peld, Merike; Quarton, Michel; Bender, Villem; Veiderma, Mihkel XVth International Conference on Phosphorus Chemistry (ICPC 15) : Sendai, Japan, July 29 - August 3, 2001 : program and abstracts 2001 / p. A43

**Süsinikradikaalide ja radikaalioonide merostabilisatsiooni kvantkeemiline uurimine**

Jürimäe, T.; Karelson, Mati XXIII Eesti keemiatänav : teaduskonverentsi ettekannete referaatid 1997 / lk. 39

**Synthesis of Mg and Na containing carbonate-fluorapatites and their use for the removal of Cd<sup>2+</sup> and Mn<sup>2+</sup> ions from solutions**

Tönsuaadu, Kaia; Peld, Merike; Veiderma, Mihkel Phosphorus research bulletin 1996 / p. 147-150: ill

**Zn(II) ions co-secreted with insulin suppress inherent amyloidogenic properties of monomeric insulin**  
Noormägi, Andra; Gavrilova, Julia; Smirnova, Julia; Tõugu, Vello; Palumaa, Peep Biochemical journal 2010 / p. 511-518  
<https://pubmed.ncbi.nlm.nih.gov/20632994/>

**Zn(II) ions inhibit fibrillization of monomeric insulin**  
Noormägi, Andra; Gavrilova, Julia; Smirnova, Julia; Tõugu, Vello; Palumaa, Peep FEBS journal 2010 / Suppl. 1, p. 256

**Textural properties of estagar gels in the presence of potassium and calcium cations and saccharose**  
Laos, Katrin; Sirendi, Meelis Food and nutrition = Toit ja toitumine 2000 / p. 55-71 : ill

**The influence of ferrous/ferric ions on the efficiency of photocatalytic oxidation of pollutants in groundwater**  
Klauson, Deniss; Portjanskaja, Elina; Katšina, Anna; Kritševskaja, Marina; Preis, Sergei; Kallas, Juha Environmental technology 2005 / 6, p. 653-662

**The influence of iron ions on the aqueous photocatalytic oxidation of deicing agents**  
Klauson, Deniss; Preis, Sergei International journal of photoenergy 2007 / [7] p

**The influence of iron ions on the aqueous photocatalytic oxidation of de-icing agents**  
Klauson, Deniss; Preis, Sergei Book of abstracts : the 1st European Conference on Environmental Applications of Advanced Oxidation Processes : Crete, Chania, September 7-9, 2006 2006 / p. 61

**The influence of iron ions on the aqueous photocatalytic oxidation of de-icing agents**  
Klauson, Deniss; Preis, Sergei Proceedings of the 1st European Conference on Environmental Applications of Advanced Oxidation Processes : Chania, Greece, September 7-9, 2006 2006 / ? p

**The influence of iron ions on the efficiency of aqueous photocatalytic oxidation of organic pollutants**  
Klauson, Deniss; Portjanskaja, Elina; Kritševskaja, Marina; Katšina, Anna; Preis, Sergei; Kallas, Juha 6th European Meeting Environmental Chemistry : December 6-10, 2005, Belgrade, Serbia and Montenegro 2005 / p. 230

**The missing link in the amyloid cascade of Alzheimer's disease - metal ions**  
Tiiman, Ann; Palumaa, Peep; Tõugu, Vello Neurochemistry international 2013 / p. 367-378 : ill

**Амперометрический метод определения хлорид-ионов в селениде кадмия с платиновым врачающимся электродом**  
Piksarv, Aina; Hödrejärv, Helvi; Vaarmann, Aini Процессы и аппараты химической технологии и технология неорганических веществ. 5 1974 / с. 55-61 : илл [https://www.esther.ee/record=b1531723\\*est](https://www.esther.ee/record=b1531723*est) <https://digikogu.taltech.ee/et/item/438b60cb-3265-444e-adba-b3c2c222f12a>

**Концентрирование микроколичеств фосфат-ионов на неорганических коллекторах**  
Arumeel, Edgar; Vilbok, Heinrich; Pets, Lydia Analītiskā ķīmija : Baltijas republiku, Baltkrievijas PSR un Kaliningradas apgabala otrs zinātniskās konferences tēzes : Rīga, 1976. gada 9.-10. septembrī = Аналитическая химия : вторая научная конференция Прибалтийских республик, Белорусской ССР и Калининградской области : тезисы докладов : г. Рига, 9-10 сентября 1976 года 1976 / с. 35 [https://www.esther.ee/record=b2563176\\*est](https://www.esther.ee/record=b2563176*est)

**О возможности определения хлорид-ионов в селениде кадмия амперометрическим титрованием**  
Piksarv, Aina; Hödrejärv, Helvi; Vaarmann, Aini Полупроводниковые материалы. 2 1972 / с. 125-131 : илл [https://www.esther.ee/record=b1476073\\*est](https://www.esther.ee/record=b1476073*est) <https://digikogu.taltech.ee/et/item/75bd57ba-4543-4614-ab7c-3230cb13e005>

**Объемноаналитическое определение сульфат-иона в золе горючих сланцев ионообменным хроматографическим методом**  
Vilbok, Heinrich Сборник статей по химии и химической технологии. 10 1964 / с. 83-88 [https://www.esther.ee/record=b2181961\\*est](https://www.esther.ee/record=b2181961*est) <https://digikogu.taltech.ee/et/item/9569e6db-150a-42c8-bf3b-765725dfd969>

**Определение микроколичества хлорид-ионов в халькогенидах кадмия ионоселективными электродами**  
Bitkova, I.; Kerm, Karin Машиностроение и механика : XXIV Студенческая научно-техническая конференция вузов прибалтийских республик, БССР и МССР : тезисы докладов. 4-7 апреля 1978 г. 1978 / с. 16

**Определение сульфат-ионов в растениях методом амперометрического титрования**  
Vaarmann, Aini; Hödrejärv, Helvi Четвертая научная конференция по аналитической химии Прибалтийских республик, БССР и Калининградской области. Часть 1 : тезисы докладов 1982 / с. 37 [https://www.esther.ee/record=b1265288\\*est](https://www.esther.ee/record=b1265288*est)

**Определение фосфат-ионов методом потенциометрического титрования с применением ионселективного электрода**  
Pöldme, Juta; Hrabetsi, A. Тезисы докладов 6. Всесоюзной конференции по фосфатам "Фосфаты-84". Ч. 3 1984 / с. 561-562

**Определение хлорид-ионов в воде амперометрическим титрованием**

**Hödreibärv, Helvi; Piksarv, Aina; Vaarmann, Aini** Материалы V Всесоюзного научного симпозиума по современным проблемам самоочищения и регулирования качества воды, Таллин, 18-21 ноября 1975 года. III секция, Гидрохимические аспекты самоочищения 1975 / с. 101-106 ; илл [https://www.esther.ee/record=b1327837\\*est](https://www.esther.ee/record=b1327837*est)