

An XPS and AFM study of polypyrrole coating on mild steel

Idla, Katrin; Talo, A.; Niemi, H.E.-M.; Forsen, Olof; Yläsaari, Seppo Surface and interface analysis 1997 / 9, [18] p.: ill

An XPS and AFM study of polypyrrole coating on mild steel

Idla, Katrin; Talo, A.; Niemi, H.; Forsen, Olof; Yläsaari, Seppo 4th International Conference on Adhesion and Surface Analysis, Loughborough University, UK, April 16-18, 1996 1996 / abstract no. P27
https://www.researchgate.net/publication/243802279_An_XPS_and_AFM_study_of_polypyrrole_coating_on_mild_steel

An XPS and SIMS study of adhesive polypyrrole film on chemically oxidized titanium

Idla, Katrin; Johansson, L.-S.; Campbell, J.M.; Inganäs, Olle 8th European Conference on Applications of Surface and Interface Analysis : 4th-8th October 1999, Sevilla, Spain : abstracts 1999 / p. 334
https://www.researchgate.net/publication/260133505_An_XPS_and_SIMS_study_of_adhesive_polypyrrole_film_on_chemically_oxidized_titanium

An XPS study of adhesive polypyrrole coating

Johansson, L.-S.; **Idla, Katrin**; Campbell, J.M.; Inganäs, O. Kemia 2000 : Kemian Päivät, Finnish Chemical Congress and Exhibition, 15.-17.11.2000 Helsingin Messukeskus 2000 / p. 23

Application of the conducting polymers polypyrrole and polyaniline as corrosion prevention materials

Idla, Katrin; Talo, A.; Forsen, Olof; **Öpik, Andres**; Yläsaari, Seppo Kemia 95 : Finnish Chemical Congress and Exhibition and Nordic Polymer Meeting 1995, Helsinki, 14-16 Nov., 1995 : abstracts 1995 / p. 46

Characterization of polyaniline and polypyrrole films by contact electric resistance (CER) technique

Talo, A.; **Idla, Katrin**; Kukkonen, J.J.V.; Forsen, Olof Meeting abstracts / the Electrochemical Society and the International Society of Electrochemistry 1997 / p. 1493: ill

Conducting polypyrrole coating of steel in aqueous solutions

Idla, Katrin; **Öpik, Andres**; Forsen, Olof Proceedings of the Estonian Academy of Sciences. Chemistry 1995 / 2/3, p. 118-126: ill

Corrosion behavior of polypyrrole coated mild steel

Reut, Jekaterina; **Öpik, Andres**; **Idla, Katrin** Synthetic metals 1999 / p. 1392-1393: ill

Corrosion behavior of polypyrrole coated mild steel

Reut, Jekaterina; **Idla, Katrin**; **Öpik, Andres** International Conference on Science and Technology of Synthetic Metals : ICSM'98 : July 12-18, 1998, Montpellier, France : book of abstracts 1998 / p. 157
<https://www.sciencedirect.com/science/article/abs/pii/S0379677998010364>

Corrosion behavior of polypyrrole coated mild steel

Reut, Jekaterina; **Idla, Katrin**; **Öpik, Andres** International Conference on Science and Technology of Synthetic Metals : ICSM'98 : July 12-18, 1998, Montpellier, France : book of abstracts 1998 / p. 157
<https://www.sciencedirect.com/science/article/pii/S0379677998010364>

CuInSe₂/polypyrrole photovoltaic structure prepared by electrodeposition

Bereznev, Sergei; **Kois, Julia**; **Mellikov, Enn**; **Öpik, Andres**; Meissner, Dieter Seventeenth European Photovoltaic Solar Energy Conference : proceedings of the International Conference held in Munich, Germany, 22-26 October, 2001. Volume I 2002 / p. 160-163 : ill

CuInSe₂/polypyrrole (polyaniline) photovoltaic structures

Bereznev, Sergei; **Kois, Julia**; **Mellikov, Enn**; **Öpik, Andres**; Meissner, Dieter Proceedings of the 14th Workshop on Quantum Solar Energy Conversion : QUANTSOL 2002, March 17-23, 2002, Rauris, Österreich 2002 / [2] p. : ill

Electrical properties of polyaniline and polypyrrole bilayer structures

Bereznev, Sergei; **Golovtsov, Igor**; **Öpik, Andres** International Conference on Science and Technology of Synthetic Metals : 15th to 21st of July 2000, Gastein, Austria : book of abstracts 2000 / p. 63-MonH138

Electrical properties of polyaniline and polypyrrole bilayer structures

Bereznev, Sergei; **Golovtsov, Igor**; **Öpik, Andres** Synthetic metals 2001 / 1/3, p. 1415-1416

Electrochemical deposition of thin polypyrrole films on silicon substrates

Intelmann, Carl Matthias; **Söritski, Vitali**; Tsankov, Dimiter; Hinrichs, Karsten; Rappich, Jörg 5th ISE Spring Meeting : Dublin (Ireland), 01.-04.05.07 2007 / ? p

Electrochemical (redox) behaviour of microporous polyethylene-based conducting polypyrrole composites

Reut, Jekaterina; Rosova, Elena; Elyashevich, Galina K.; **Idla, Katrin**; **Öpik, Andres** Proceedings of the Estonian Academy of Sciences. Chemistry 2003 / 3, p. 108-119 : ill

Electrochemical synthesis of polypyrrole films containing nucleotides

Kovtun, Aleksandr; Malikova, O.; **Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres** Book of abstracts of Baltic Polymer Symposium 2009 : Ventspils, Latvia, 22-25 September, 2009 2009 / ? p

Electrochemically deposited ultrathin polypyrrole films on silicon

Intelmann, Carl Matthias; **Sõritski, Vitali**; Tsankov, Dimitre; Hinrichs, Karsten; Rappich, Jörg GDCh (German Chemical Society) - YoungChemists : Spring Symposium 2007 : Chemnitz (Germany), 22.-24.03.07 2007 / ? p

Electrodeposited (Cu-In-Se)/polypyrrole PV structures

Bereznev, Sergei; Kois, Julia; Golovtsov, Igor; Öpik, Andres; Mellikov, Enn Thin solid films 2006 / p. 425-429 : ill

Electrosynthesized conducting polymers, polypyrrole and poly(3,4-ethylenedioxythiophene), for molecular imprinting

Öpik, Andres; Menaker, Anna; Reut, Jekaterina; Sõritski, Vitali; Malikova, O.; Kaev, Jevgeni; Kovtun, Aleksandr Book of abstracts of Baltic Polymer Symposium 2009 : Ventspils, Latvia, 22-25 September, 2009 2009 / ? p

Electrosynthesized molecularly imprinted polypyrrole films for enantioselective recognition of L-aspartic acid

Sõritski, Vitali; Reut, Jekaterina; Menaker, Anna; Gyurcsanyi, Robert E.; **Öpik, Andres** Electrochimica acta 2008 / 6, p. 2729-2736 : ill <https://www.sciencedirect.com/science/article/pii/S0013468607012947>

Elektrituhtiv lahustuv polüüpürrool legeritud dodetsüülbenseensulfonaat- ja beeta-naftaleensulfonaatioonide seguga

Reut, Jekaterina; Öpik, Andres XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 115-116

Elektrokeemilised CuInS₂/polüüpürrool fotovolt struktuurid

Bereznev, Sergei; Konovalov, Igor; Kois, Julia; Mellikov, Enn; Öpik, Andres XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 19

Elektrokeemilised CuInSe₂/polüüpürrool struktuurid päikeseenergeetikale

Bereznev, Sergei; Kois, Julia; Mellikov, Enn; Öpik, Andres; Meissner, Dieter XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 16-17

Enantioselective properties of overoxidized polypyrrole films imprinted with L-Aspartic acid studied by EQCM technique

Menaker, Anna; Sõritski, Vitali; Reut, Jekaterina; Gyurcsanyi, Robert E.; Toth, K.; **Öpik, Andres** The International Conference on Science and Technology of Synthetic Metals (ICSM'2006) : Dublin, Ireland, July 2-7, 2006 2006 / [poster presentation]

Environmental QCM sensors coated with polypyrrole

Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres; Idla, Katrin International Conference on Science and Technology of Synthetic Metals : ICSM'98 : July 12-18, 1998, Montpellier, France : book of abstracts 1998 / p. 160
<https://www.sciencedirect.com/science/article/abs/pii/S0379677998010479>

Environmental QCM sensors coated with polypyrrole

Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres; Idla, Katrin International Conference on Science and Technology of Synthetic Metals : ICSM'98 : July 12-18, 1998, Montpellier, France : book of abstracts 1998 / p. 160
<https://www.sciencedirect.com/science/article/abs/pii/S0379677998010479>

Environmental QCM sensors coated with polypyrrole

Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres; Idla, Katrin Synthetic metals 1999 / p. 1326-1327: ill

EQCM study enantioselective uptake of aspartic acid with overoxidized polypyrrole films

Sõritski, Vitali; Gyurcsanyi, Robert E.; **Reut, Jekaterina; Menaker, Anna**; Toth, K.; **Öpik, Andres** 56th International Meeting of Electrochemical Society (ISE2005) : book of abstracts 2005 / p. 965

Extraordinary toughness and adhesion of polypyrrole films on thin oxidized titanium layers

Idla, Katrin; Strandberg, Marek WEEPF 97 : 2nd International Workshop on Electrochemistry of Electroactive Polymer Films, Dourdan, 7-10th September 1997 1997 / 1 p

Good adhesion between chemically oxidised titanium and electrochemically deposited polypyrrole

Idla, Katrin; Inganäs, Olle; Strandberg, Marek Electrochimica acta 2000 / p. 2121-2130 : ill

Humidity and SO₂ gas sensor based on QCM coated with polypyrrole films

Sõritski, Vitali; Öpik, Andres Finnish Chemical Congress and Exhibition, Helsinki, November 3-5, 1998 : abstracts 1998 / p. 10

Hybrid copper-indium disulfide polypyrrole/photovoltaic structures prepared by electrodeposition

Bereznev, Sergei; Konovalov, Igor; Öpik, Andres; Kois, Julia; Mellikov, Enn Solar energy materials and solar cells 2005 / p. 197-206 : ill

Hybrid CuInS₂/polypyrrole and CuInS₂/poly(3,4-ethylenedioxythiophene) photovoltaic structures [Electronic resource]
Bereznev, Sergei; Öpik, Andres; Konovalov, Igor Proceedings of the International Conference on the Science and Technology of Synthetic Metals : ICSM 04 : Wollongong, Australia, June 28-July 2, 2004 2004 / [CD-ROM]
[https://www.researchgate.net/publication/232397578_Hybrid_CuInS₂polypyrrole_and_CuInS₂poly34-ethylenedioxythiophene_photovoltaic_structures](https://www.researchgate.net/publication/232397578_Hybrid_CuInS2polypyrrole_and_CuInS2poly34-ethylenedioxythiophene_photovoltaic_structures)

Hybrid CuInS₂/polypyrrole and CuInS₂/poly(3,4-ethylenedioxythiophene) photovoltaic structures
Bereznev, Sergei; Konovalov, Igor; **Öpik, Andres;** **Kois, Julia** Synthetic metals 2005 / 1/3, p. 81-84 : ill

Hybrid solar cells based on a-Si and electrodeposited polypyrrole
Dosenovicova, Denisa; Bereznev, Sergei; Maricheva, Jelena; Neumüller, A.; Sergeev, O.; **Volobujeva, Olga; Kois, Julia; Öpik, Andres** Baltic Polymer Symposium 2016 : programme and abstracts 2016 / p. 31 : ill

In-situ characterization of the polypyrrole films by EQCM and CER techniques
Sõritski, Vitali; Öpik, Andres; Talo, A.; Forsen, Olof Synthetic metals 2001 / 1/3, p. 309-310 : ill
https://www.researchgate.net/publication/202179222_In-situ_characterization_of_the_polypyrrole_films_by_EQCM_and_CER_techniques

In-situ characterization of the polypyrrole films by QCM and CER techniques
Sõritski, Vitali; Öpik, Andres; Talo, A.; Forsen, Olof International Conference on Science and Technology of Synthetic Metals : 15th to 21st of July 2000, Gastein, Austria : book of abstracts 2000 / p. 122-WedA121 <https://research.aalto.fi/publications/in-situ-characterization-of-the-polypyrrole-films-by-qcm-and-cer->

Investigation of the silicon/polypyrrole interface by pulsed photoluminescence and IR spectroscopic ellipsometry during electrochemical deposition
Zhang, Xin; **Sõritski, Vitali;** Sun, Guoguang; Hinrichs, Karsten; Rappich, Jörg Polymers for advanced technologies 2013 / p. 171

Ion transport investigations of polypyrroles doped with different anions by EQCM and CER techniques
Sõritski, Vitali; Öpik, Andres; Forsen, Olof Electrochimica acta 2003 / 10, p. 1409-1417 : ill
<https://www.sciencedirect.com/science/article/pii/S0013468603000185>

Modification of conductive properties and processability of polyparaphenylene, polypyrrole and polyaniline
Golovtsov, Igor 2005 https://www.ester.ee/record=b2097077*est

Multilayer structures based on polyparaphenylene-polypyrrole blend semiconductive films deposited on light transparent substrates
Golovtsov, Igor; Öpik, Andres Proceedings of Baltic Polymer Symposium 2002, Nida, September 18-20, 2002 2002 / p. 156-161 : ill

Photo-assisted electrodeposition of polypyrrole back contact to CdS/CdTe solar cell structures
Jarkov, Aleksandr; Bereznev, Sergei; Kois, Julia; Volobujeva, Olga; Öpik, Andres E-MRS Spring Meeting 2012 - Symposium B : Strasbourg, France, May 14-18, 2012 : program and abstract book 2012 / p. 8

Photo-assisted electrodeposition of polypyrrole back contact to CdS/CdTe solar cell structures
Jarkov, Aleksandr; Bereznev, Sergei; Volobujeva, Olga; Traksmäa, Rainer; Tverjanovich, Andrey; **Öpik, Andres; Mellikov, Enn** Thin solid films 2013 / p. 198-201 : ill <https://doi.org/10.1016/j.tsf.2013.01.064> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Polüparafenüleen/polüüpürrool mitmekihilised struktuurid
Golovtsov, Igor; Öpik, Andres XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 31

Polüüpürrool-polüparafenüleen komposiitkilede ja polüüpürrookilede omaduste uurimine
Golovtsov, Igor; Öpik, Andres XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 22-23

Polüüpürrooli elektrokeemiline süntees vesilahustes = A study of the electrochemical synthesis of polypyrrole from aqueous solution on stainless steel electrode
Reut, Jekaterina; Idla, Katrin XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 167-168 https://www.ester.ee/record=b1070511*est

Polüüpürrooliga modifitseeritud elektrit juhtiva mikropoorse polüetüleeni elektrokeemilised omadused
Reut, Jekaterina; Rosova, E.Yu.; Elyashevich, Galina K.; **Idla, Katrin; Öpik, Andres** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 114-115

Polyaniline and polypyrrole as anti-corrosion materials
Talo, A.; **Idla, Katrin;** Forsen, Olof; **Öpik, Andres;** Yläsaari, Seppo International Society of Electrochemistry, 47th Annual Meeting :

abstracts : Veszprém & Balatonfüred, Hungary, September 1-6, 1996 1996 / p. P2c-11

Polypyrrole back contact to CDS/CDTE solar cell structures by photo-assisted electrodeposition technique

Jarkov, Aleksandr; Bereznev, Sergei; Kois, Julia; Volobujeva, Olga; Öpik, Andres Baltic Polymer Symposium 2012 : Liepaja, Latvia, September 19-22 : programme and proceedings 2012 / p. 42

Polypyrrole back-contact to CdS/CdTe solar cell

Bereznev, Sergei; Jarkov, Aleksandr; Kois, Julia; Volobujeva, Olga; Mellikov, Enn; Öpik, Andres 11th International Symposium on Functional π -electron systems (F π -11) : June 2-7, 2013, Arcachon, France : book of abstracts 2013 / p. 164

Polypyrrole electrodeposition on inorganic semiconductors CuInSe₂ and CuInS₂ for photovoltaic applications

Bereznev, Sergei; Konovalov, Igor; Kois, Julia; Mellikov, Enn; Öpik, Andres Electronic Phenomena in Organic Solids : Prague, Czech Republic, July 14-18, 2002 2004 / p. 287-292 : ill

Polypyrrole electrodeposition on inorganic semiconductors CuInSe₂ and CuInS₂ for photovoltaic applications

Bereznev, Sergei; Konovalov, Igor; Kois, Julia; Mellikov, Enn; Öpik, Andres 21st Discussion Conference of P.M.M./9th International Conference ERPOS : Electrical and Related Properties of Polymers and Other Organic Solids : Prague, 14-18 July 2002 : programme booklet. Volume K 76 2002 / p. 96

Polypyrrole electrodeposition on inorganic semiconductors CuInSe₂ and CuInS₂ for photovoltaic applications

Bereznev, Sergei; Konovalov, Igor; Kois, Julia; Mellikov, Enn; Öpik, Andres 21st Discussion Conference of P.M.M./9th International Conference ERPOS : Electrical and Related Properties of Polymers and Other Organic Solids : Prague, 14-18 July 2002 2002 / [6] p. : ill

Polypyrrole photovoltaic structure prepared by electrodeposition

Bereznev, Sergei; Kois, Julia; Mellikov, Enn; Öpik, Andres; Meissner, Dieter Seventeenth European Photovoltaic Solar Energy Conference and Exhibition : München, Germany, October 22-26, 2001 : book of abstracts 2001 / p. 150

Polypyrrole-polyparaphenylene blend films electrochemically deposited onto light transparent substrates

Golovtsov, Igor; Öpik, Andres International Conference on Science and Technology of Synthetic Metals : book of abstracts 2002 / p. 32

Preparation and characterization of multilayer system consisting of the soluble and electrochemically synthesized polypyrrole films

Reut, Jekaterina; Reut, N.; Öpik, Andres International Conference on Science and Technology of Synthetic Metals : 15th to 21st of July 2000, Gastein, Austria : book of abstracts 2000 / p. 5-SunA109

https://www.researchgate.net/publication/243345790_Preparation_and_characterization_of_multilayer_Systems_consisting_of_the_soluble_and_electrochemically_synthesized_polypyrrole_films

Preparation and characterization of multilayer systems consisting of the soluble and electrochemically synthesized polypyrrole films

Reut, Jekaterina; Reut, N.; Öpik, Andres Synthetic metals 2001 / 1/3, p. 81-82 : ill

Recombination behaviour at the ultra-thin polypyrrole film

Intelmann, Carl Matthias; Hinrichs, Karsten; Söritski, Vitali; Yang, Florent; Rappich, Jörg EM-Nano 2007 International Symposium on Organic and Inorganic Electronic Materials and Related Nanotechnologies : Nagano (Japan), 19.-22.06.2007 2007

Recombination behaviour at the ultra-thin polypyrrole film/silicon interface investigated by in-situ pulsed photoluminescence

Intelmann, Carl Matthias; Hinrichs, Karsten; Söritski, Vitali; Yang, Florent; Rappich, Jörg Japanese journal of applied physics 2008 / 2, p. 554-557 <https://iopscience.iop.org/article/10.1143/JJAP.47.554>

Soluble conducting polypyrrole doped with mixed dodecylbenzen sulfonate and beta-naphtalene sulfonate

Reut, Jekaterina; Öpik, Andres Proceedings of Baltic Polymer Symposium 2001 : Oct. 11-12 in Tallinn 2001 / p. 243-248 : ill

Study of synthesis and redox switching of polypyrrole and poly(3,4-ethylenedioxythiophene) by using in-situ techniques

Söritski, Vitali 2004 https://www.ester.ee/record=b1994290*est

A study of the electrochemical synthesis of polypyrrole from aqueous solution on stainless steel electrode

Reut, Jekaterina; Idla, Katrin; Öpik, Andres Proceedings of the Estonian Academy of Sciences. Chemistry 1996 / 3/4, p. 152-159

Synthesis and redox behavior of PEDOT/PSS and PPy/DBS structures

Söritski, Vitali; Idla, Katrin; Öpik, Andres Synthetic metals 2004 / p. 235-239 : ill
<https://www.sciencedirect.com/science/article/abs/pii/S0379677904001407>

Temperature-dependent conductivity of polyparaphenylene/polypyrrole multilayer structures

Golovtsov, Igor; Öpik, Andres Synthetic metals 2001 / 1/3, p. 1363-1364

Temperature-dependent conductivity of polyparaphenylene/polypyrrole multilayer structures

Golovtsov, Igor; Öpik, Andres International Conference on Science and Technology of Synthetic Metals : 15th to 21st of July 2000, Gastein, Austria : book of abstracts 2000 / p. 58-MonH102

Thin composite films consisting of polypyrrole and polyparaphenylene

Golovtsov, Igor; Bereznev, Sergei; Traksmaa, Rainer; Öpik, Andres Thin solid films 2006 / 19, p. 7712-7715 : ill

Ultrathin polypyrrole films on silicon substrates

Intelmann, Carl Matthias; **Sörtski, Vitali**; Tsankov, Dimitar; Hinrichs, Karsten; Rappich, Jörg Electrochimica acta 2008 / 11, p. 4046-4050 : ill

XPS and SIMS study : adhesion of polypyrrole film on titanium

Idla, Katrin; Johansson, L.-S.; Campbell, J.M.; Inganäs, Olle Surface and interface analysis 2000 / p. 557-560 : ill

[https://doi.org/10.1002/1096-9918\(200008\)30:1%3C557::AID-SIA866%3E3.0.CO;2-N](https://doi.org/10.1002/1096-9918(200008)30:1%3C557::AID-SIA866%3E3.0.CO;2-N)

Электроосаждение полипиррола в качестве тыльного контакта для солнечного элемента CdS/CdTe

Bereznev, Sergei; Kois, Julia; Jarkov, Aleksandr; Öpik, Andres; Mellikov, Enn Шестая Всероссийская Каргинская конференция "Полимеры - 2014". Том I, Программа конференции и сборник тезисов пленарных, приглашённых, и устных докладов 2014 / с. 165