

Krisztina Schrantz

Publication list

December 2015

Σ Conferences: 113

Invited lectures 9
Oral presentations 71
Posters 33

Σ Publications: 57

Papers 35
Editorial 1
Book 1
Book chapters 8
Conference papers 5
Abstracts 6
University Script 1

Independent citations (Σ citations): 458 (596)

Σ Impact factor (If): 83.0

2015

57. Alapi T., Simon G. , Veréb G. , Kovács K. , Arany E. , **Schrantz K.**, Dombi ., Hernádi K.
Toxicology Aspects of the Decomposition of Diuron by Advanced Oxidation Processes
HUNGARIAN JOURNAL OF INDUSTRY AND CHEMISTRY 43:(1) pp. 25-32. (2015)
First National Conference on Water Chemistry and Technology. Veszprém, Magyarország:
2014.07.07 -2014.07.09.

56. Alapi T., Dombi A., László Zsuzsanna , **Schrantz K.**
Kémiai oxidációs eljárások a vízkezelésben
MAGYAR KÉMIKUSOK LAPJA 70:(11) pp. 367-370. (2015)

55. E. Arany (Ed.), T. Alapi, **K. Schrantz**
Reactive species against selected nonsteroidal anti-inflammatory drugs: Radical scavengers, radical transfers, reaction mechanisms
LAP LAMBERT Academic Publishing, Saarbrücken, Germany, 2015, ISBN: 978-3-659-45798-2
(**book**)

54. D. K. Bora , A. Braun and **K. Gajda-Schrantz**
Bioconjugated and bio-hybrid electrodes for solar fuels by photo-electrochemical water splitting
In "From Molecules to Materials—Pathway to Artificial Photosynthesis, (Rozhkova, Elena A., Ariga, Katsuhiko (Eds.)), Springer, 2015, ISBN 978-3-319-13800-8 (**book chapter**)

53. G. Faccio; **K. Schrantz**; J. Ihssen; F. Boudoire; Y. Hu; B. S. Mun; D. K. Bora; L. Thoeny-Meyer; A. Braun,

Charge transfer between photosynthetic proteins and hematite in bio-hybrid photoelectrodes for solar water splitting cells

Nano Convergence, 2015, 2:9, (doi: 10.1186/s40580-014-0040-4)

52. G. Kovács, Sz. Fodor, A. Vulpoi, **K. Schrantz**, A. Dombi, K. Hernádi, V. Danciu, Zs. Pap, L. Baia

Polyhedral Pt vs. spherical Pt nanoparticles on commercial titanias: Is shape tailoring a guarantee of achieving high activity?

Journal of Catalysis 325 (2015) 156–167.

If = **6.073**

2014

51. E. Arany, J. Láng, D. Somogyvári, O. Láng, T. Alapi, I. Ilisz, **K. Gajda-Schrantz**, A. Dombi, L. Kőhidai, K. Hernádi

Vacuum-ultraviolet photolysis of diclofenac and the effect of the treated aqueous solutions on the proliferation and migratory responses of *Tetrahymena pyriformis*

Science of Total Environment, 468-469 C, pp. 996-1006, 2004, (doi: 10.1016/j.scitotenv.2013.09.019)

If = **3.163**

50. J. Ihssen, A. Braun, G. Faccio, K. **Gajda-Schrantz**, L. Thöny-Meyer

Light harvesting proteins for solar fuel generation in bioengineered photoelectrochemical cells

Current Protein and Peptide Science, 15(4), pp. 374–384, 2014

([10.2174/1389203715666140327105530](https://doi.org/10.2174/1389203715666140327105530))

If = **2.328**

Ind. cit.: 2

49. E. Illés, E. Szabó, E. Takács, L. Wojnárovits, A. Dombi, **K. Gajda-Schrantz**

Ketoprofen removal by O₃ and O₃/UV processes: Kinetics, degradation products and ecotoxicity

Science of the Total Environment, 472: 178-184, 2014. (doi: 10.1016/j.scitotenv.2013.10.119.)

If = **3.163**

Ind. cit.: 6

2013

48. E. Arany, R. K. Szabó, L. Apái, T. Alapi, I. Ilisz, P. Mazellier, A. Dombi, **K. Gajda-Schrantz**

Degradation of Naproxen using AOPs

Journal of Hazardous Materials, Vol. 262, 2013, Pages 151–157

If = **4.331**

Ind. cit.: 6

47. M. Baia, K. **Gajda-Schrantz**, S. Shen, E. Stathatos

Progress and perspectives in visible-light-driven photocatalysis

International Journal of Photoenergy 2013: pp. 1-3., Editorial

If = **2.663**

46. D. K. Bora, E. C. Constable, W. Drube, S. Erat, X. Feng, G. Fortunato, N. Gaillard, **K. Gajda-Schrantz**, M. Graetzel, J. Guo, Y. Hu, S. Mukherjee, D. D. Sarma, S. Thiess, R. Toth, H. Wang, J. Zhu, A. Braun,

Between Photocatalysis and Photosynthesis: Synchrotron spectroscopy methods on molecules and materials for solar hydrogen generation

Journal of Electron Spectroscopy and Related Phenomena, 190: pp.93-105 (2013)
<http://dx.doi.org/10.1016/j.elspec.2012.11.009>
If = **1.552**

45. K. Gajda-Schranz, S. Tymen, F. Boudoire, R. Toth, D. K. Bora, W. Calvet, M. Grätzel, E. C. Constable and A. Braun
Formation of an electron hole doped film in the α -Fe₂O₃ photoanode upon electrochemical oxidation
Physical Chemistry Chemical Physics, 15: (5) pp. 1443-1451 (2013), doi: 10.1039/c2cp42597a
If = **4.198** **Ind. cit.: 8**

44. K. Gajda-Schranz, E. Arany, E. Illés, E. Szabó, Zs. Pap, E. Takács, L. Wojnárovits
“Advanced Oxidation Processes for ibuprofen removal and ecotoxicological risk assessment of degradation intermediates” in *Ibuprofen: Clinical Pharmacology, Medical Uses and Adverse Effects* (W.C. Carter and B.R. Brown, Eds.) NOVA Publishers, NY, 2013, pp. 159-232
ISBN: 978-1-62618-659-0 (**book chapter**)

43. E. Illés; E. Takács; A. Dombi; **K. Gajda-Schranz**; G. Rácz; K. Gonter; L. Wojnárovits
Hydroxyl radical induced degradation of ibuprofen
Science of Total Environment 447 (2013) pp. 286–292
If = **3.163** **Ind. cit.: 16**

42. D. Regonini; A. C. Teloeken; A. K. Alves; F. A. Berutti, **K. Gajda-Schranz**; C. P. Bergmann; T. Graule; F. Clemens
Electrospun TiO₂ Fiber Composite Photoelectrodes for Water Splitting
ACS Applied Materials and Interfaces (ISSN: 1944-8244) 5: (22) pp. 11747-11755. (2013)
If = **5.900** **Ind. cit.: 4**

2012

41. E. Arany , R. Szabó , **K. Gajda-Schranz** , P. Mazellier , A. Dombi
Degradation of naproxen by advanced oxidation processes
In: Szanyi J , Medgyes T , Kóbor B , Kurunczi M , Egyed E (Eds.)
A geotermikus energia fenntartható hasznosítása: Kutatások a visszasajtolás és a vízkezelés területén.
Szeged: InnoGeo Kft., 2012. pp. 209-220, ISBN: 978-963-89689-0-6 (book chapter)

40. E. Arany , T. Oppenländer , **K. Gajda-Schranz** , A. Dombi
Influence of H₂O₂ formed in situ on the photodegradation of ibuprofen and ketoprofen
In: Szanyi J , Medgyes T , Kóbor B , Kurunczi M , Egyed E (szerk.)
A geotermikus energia fenntartható hasznosítása: Kutatások a visszasajtolás és a vízkezelés területén.
Szeged: InnoGeo Kft., 2012. pp. 221-241, ISBN: 978-963-89689-0-6 (book chapter)

39. E. Arany, T. Oppenländer, **K. Gajda-Schranz**, A. Dombi
Influence of H₂O₂ Formed In Situ on the Photodegradation of Ibuprofen and Ketoprofen
Current Physical Chemistry, 2, 3, 286-293 (2012) doi: 10.2174/10286
If = **2.62** **Ind. cit.: 1**

38. E. Arany, S. Cerrone, R. K. Szabó, T. Alapi, **K. Gajda-Schranz**, A. Dombi
Vacuum-ultraviolet photolysis of non-steroidal anti-inflammatory drugs
In: Galbács Zoltán (Ed.)

Proceedings of the 17th International Symposium on Analytical and Environmental Problems. 495 p.
Konferencia helye, ideje: Szeged, Magyarország, 2011.09.19 Szeged: JATE Press, 2012. pp. 64-67.
ISBN: 978-963-315-066-5 (proceeding)

37. D. K. Bora, E. A. Rozhkova, **K. Schrantz**, P. Wyss, A. Braun, T. Graule, E. C. Constable
Functionalization of Nanostructured Hematite Thin Film Electrodes with the Light Harvesting
Membrane Protein C-Phycocyanin yields Enhanced Photocurrent
Advanced Functional Material 2012. **22**(3): p. 490-502.

If = **9.765**

Ind. cit.: 11

36. A. Braun, Q. Chen, D. Flak, G. Fortunato, **K. Gajda-Schrantz**, M. Grätzel, T. Graule, J. Guo,
T.-W. Huang, Z. Liu, A. Popelo, K. Sivula, H. Wadati, P. P. Wyss, L. Zhang, J. Zhu
Iron resonant photoemission spectroscopy on anodized hematite points to electron hole doping
during anodization

ChemPhysChem 13(12), 2937-2944, 2012

If = **3.339**

Ind. cit.: 2

35. E. Illés, E. Takács, A. Dombi, **K. Gajda-Schrantz**, K. Gonter, L. Wojnárovits
Radiation induced degradation of ketoprofen in dilute aqueous solution

Radiation Physics and Chemistry, 81, 1479–1483 (2012)

If = **1.375**

Ind. cit.: 7

34. E. Illés, E. Takács, A. Dombi, **K. Gajda-Schrantz**, G. Rácz, K. Gonter, L. Wojnárovits
Ibuprofen vizes oldatának radiolízise során keletkező köztitermékek és végtermékek vizsgálata
In: Szentmiklósi L (Ed.)

Őszi Radiokémiai Napok 2012 . 104 p.

Konferencia helye, ideje: Siófok , Magyarország , 2012.10.08 -2012.10.10. Budapest: Magyar
Kémikusok Egyesülete, 2012. pp. 27-31, ISBN:978-963-9970-27-4 (proceeding)

33. D. Šojić, V. Despotović, D. Orčić, E. Szabó, E. Arany, S. Armaković, E. Illés, **K. Gajda-Schrantz**,
A. Dombi, T. Alapi, E. Sajben-Nagy, A. Palágyi, Cs. Vágvölgyi, L. Manczinger, L. Bjelica,
B. Abramović

Degradation of thiamethoxam and metoprolol by UV, O₃ and UV/O₃ hybrid processes: Kinetics,
reaction mechanism and toxicity

Journal of Hydrology, 472–473 (2012) 314–327

If = **2.964**

Ind. cit.: 15

2011

32. Abramović B , Alap T , Arany E , Beszédes S , Dombi A , Farkas J , Illés E , Kertész S ,
Kmetykó A , Kredics L , László Z , Manczinger L , Mazellier P , Mogorósi K , Pap Z , Szabó E ,
Szabó R , Gajda-Schrantz K , Vágvölgyi C , Vajda K , Veréb G

Removal of persistent organic pollutants (pharmaceuticals and pesticides) from waters using
Advanced Oxidation Processes

In: Hussain Al-Ekabi (szerk.)

The 17th International Conference on Advanced Oxidation Technologies for Treatment of Water, Air
and Soil (AOTs-17): Abstract Book . Konferencia helye, ideje: San Diego , Amerikai Egyesült
Államok , 2011.11.07 -2011.11.10. ismeretlen, Paper <http://publicatio.bibl.u-szeged.hu/4546/>. 1 p.

31. E. Illés, E. Takács, A. Dombi, **K. Gajdáné Schrantz**, K. Gonter , L. Wojnárovits
Nagyenergiájú Ionizáló Sugárzás Alkalmazása Ketoprofen Vizes Oldatának Bontására

In: Szentmiklósi L (Ed.)

Őszi Radiokémiai Napok 2011 . Konferencia helye, ideje: Sopron, Magyarország, 2011.10.26 - 2011.10.28. Budapest: Magyar Kémikusok Egyesülete, 2011. pp. 44-50, ISBN:978-963-9970-19-9 (proceeding)

30. R. Szabó, Cs. Megyeri, E. Illés, **K. Gajda-Schrantz**, P. Mazellier, A. Dombi

Photolytic degradation of Ibuprofen and Ketoprofen

Chemosphere, 84, 11, 1658-1663 (2011)

If = **3.206**

Ind. cit.: 28

2010

29. E. Arany, T. Oppenländer, **K. Gajdáné Schrantz**, A. Dombi

Hidrogén-peroxid képződése a víz 172 nm-es fotolízise, valamint az ibu- és a ketoprofen 172 és/vagy 185/254 nm-es fotomineralizációja során

In: Janáky Cs , Németh Z (szerk.)

XXXIII. Kémiai Előadói Napok: Fókuszban a kémia és a gyógyszer . Konferencia helye, ideje:

Szeged, Magyarország , 2010.10.25 -2010.10.27. Szeged: JATEPress, 2010. pp. 171-172.

ISBN:978-963-315-020-7 (abstract)

28. A. Dombi, **K. Gajda-Schrantz**, T. Oppenländer, E. Szakács

Intrinsic production of hydrogen peroxide by 172 nm photolysis of water and during the photomineralization of ibu- or ketoprofen by 172 nm and/or 185/254 nm light

In: Grilli ML , Artuso F (Eds.)

The 36th ISEAC International Symposium on Environmental Analytical Chemistry. Konferencia helye, ideje: Roma, Olaszország, 2010.10.05 -2010.10.09. Roma: ENEA Italian National Agency for New Technologies, 2010. Paper O-57, ISBN:978-88-8286-228-2 (abstract)

27. M. Farré, S. Pérez, K. **Gajda-Schrantz**, V. Osorio, L. Kantiani, A. Ginebreda, D. Barceló

First determination of C60 and C70 fullerenes and N-methylfulleropyrrolidine C60 on the suspended material of wastewater effluents by liquid chromatography hybrid quadrupole linear ion trap tandem mass spectrometry

Journal of Hydrology, **383**, SI 1-2, 44-51 (2010)

If = **2.514**

Ind. cit.: 51

26. E. Illés , **K. Gajdáné Schrantz**, A. Dombi

Ozonization and UV Photolysis of Ketoprofen

In: Dombi A , Kóbor B , Medgyes T (Eds.)

Vizek szerves szennyezőinek eltávolítása nagyhatékonyságú oxidációs módszerekkel: Removal of organic contaminants of waters by advanced oxidation processes . 172 p.

Szeged: InnoGeo, 2010. pp. 155-160. ISBN:978-963-06-9621-0 (book chapter)

25. M. Kock, M. Farré, E. Martinez, **K. Gajda-Schrantz**, A. Ginebreda, A. Navarro, L. M. de Alda, D. Barcelo

Integrated ecotoxicological and chemical approach for the assessment of pesticide pollution in the Ebro River delta (Spain)

Journal of Hydrology, **383**, SI 1-2, 73-82 (2010)

If = **2.514**

Ind. cit.: 29

24. R. Szabó, Cs. Megyeri, P. Mazzellier, A. Dombi, **K Gajda-Schrantz**

Dombi A (Ed.)

Photolytic degradation of ibuprofen and ketoprofen: Az ibuprofen és ketoprofen fotolitikus bomlása

In: Dombi A

Organic Contaminants of waters by advanced Oxidation Processes. Szeged: InnoGeo Kft., 2010. pp. 117-129. ISBN 978-963-06-9621-0 (book chapter)

23. R. Szabó, K. Gajda-Schrantz, A. Dombi

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Degradation of Pharmaceutical Compounds by Advanced Oxidation Processes: Vizek szerves szennyezőinek eltávolítása nagyhatékonyságú oxidációs módszerekkel

In: Dombi A

Removal of Organic Contaminants of waters by advanced Oxidation Processes. Szeged: InnoGeo Kft., 2010. pp. 129-140. ISBN 978-963-06-9621-0 (book chapter)

22. R Szabó, K. Gajda-Schrantz, P. Mazellier, A. Dombi

Degradation of pharmaceutical compounds by Advanced Oxidation Processes

In: GALBÁCS Zoltán (Ed.)

Proceedings of THE 16th INTERNATIONAL SYMPOSIUM ON ANALYTICAL AND ENVIRONMENTAL PROBLEMS. 28 September 2009. Szeged: JATEPress, 2010. pp. 496-500. ISBN: 978-963-482-975-1 (proceeding)

2009

21. M. Farré, K. Gajda-Schrantz, L. Kantiani, D. Barceló

Ecotoxicity and analysis of nanomaterials in the aquatic environment

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If = **3.480**

Ind. cit.: 173

20. E. Illés, R. Szabó, T. Oppenländer, A. Dombi, K. Gajda-Schrantz

Degradation of ketoprofen by ozonisation/ Ketoprofen bontása ózonozással

In: Gyulaffy Béláné Berényi Mária (Ed.)

Dunaújvárosi Főiskola kiadványa . Konferencia helye, ideje: Dunaújváros , Magyarország , 2009.11.09 -2009.11.13. Dunaújváros: Dunaújvárosi Főiskola Kiadói Hivatala, 2009. p. 8.

ISSN 1586-8567 (essay chapter)

19. R.Szabó, Cs.Megyeri, A. Dombi, P. Mazzelier, K. Gajda-Schrantz

Photolytic degradation of ibuprofen and ketoprofen/ Az ibuprofen és ketoprofen fotolitikus bomlása

In: Gyulaffy Béláné Berényi Mária (Ed.)

Dunaújvárosi Főiskola lektorált kiadványa, Dunaújvárosi Főiskola Kiadó 2009

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2008

18. T. Alapi T, K. Gajda-Schrantz, I. Ilisz, K. Mogyorósi, P. Sipos, A. Dombi,

Comparison of UV- and UV/VUV-induced photolytic and heterogeneous photocatalytic degradation of phenol, with particular emphasis on the intermediates

Journal of Advanced Oxidation Technologies, **11**, 3, 519-528, AUG 31 2008

If = **0.495**

17. Károlyné Lakatos A., Gajdáné Schrantz K., Enyedy É. A., Dombi A.

Károlyné Lakatos A., Gajdáné Schrantz K., Enyedy É. A., Dombi A. (szerk.)

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ISBN: 978 963 7356 80 3 (University practicum)

2006

16. É. A. Enyedy, L. Horváth, **K. Gajda-Schranz**, G. Galbács, T. Kiss
An in vitro study of interactions between insulin-mimetic zinc(II) complexes and selected plasma components

J. Inorg. Biochem., 100, 1936-1945 (2006)

If = **2.654**

Ind. cit.: 5

15. T. Jakusch, **K. Gajda-Schranz**, Y. Adachi, H. Sakurai, T. Kiss, L. Horváth: Solution equilibrium characterization of insulin-mimetic Zn(II) complexes.

J. Inorg. Biochem., 100, 1521-1526, 2006.

If = **2.654**

Ind. cit.: 7

14. T. Kiss, **K. Gajda-Schranz**, P. F. Zatta

The role of aluminium in neurotoxic and neurodegenerative process

In: Astrid Sigel, Helmut Sigel, Roland K O Sigel (Eds.)

Neurodegenerative Diseases and Metal Ions. 488 p., New York: Wiley, 2006. pp. 371-393.

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Ind. cit.: 2

2003

13. **K. Gajda-Schranz**, A. Jancso, C. Pettinari, T. Gajda

Thiolate anchor in organotin(IV) induced amide deprotonation: equilibrium and NMR spectroscopic studies on dimethyltin(IV) complexes formed with N-(2-mercaptopropionyl) glycine and L-alanyl-glycine

DALTON TRANSACTIONS Issue: 14 Pages: 2912-2916 Published: 2003

If = **2.908**

Ind. cit.: 14

12. L. Nagy, A. Szorcsik, **K. Schranz**, J. Sletten, E. Kamu, H. Jankovics, A. Jancso, M. Scopelliti, A. Deak, L. Pellerito

Organotin(IV)ⁿ⁺ complexes formed with biological active ligands

In: Melnik M, Sirota A (ed.)

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Slovak Technical University Press, 2003. pp. 375-380. Monograph Series of the International Conferences on Coordination Chemistry held periodically at Smolenice in Slovakia; Volume 6.

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2002

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Equilibrium and spectroscopic studies of diethyltin(IV) complexes formed with hydroxymono- and di-carboxylic acids and their thioanalogues.

Journal of the Chemical Society, Dalton Transactions, 152-158 (2002)

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Ind. cit.: 13

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If = 0.502

Ind. cit.: 8

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Preparation and spectroscopic studies of diorganotin(IV) complexes with adenosine and related compounds.

Journal of Radioanalytical and Nuclear Chemistry, **247**, 1, 79-87 (2001)

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Ind. cit.: 1

1998

6. K. Gajda-Schrantz, L. Nagy, E. Kuzmann, A. Vértes

Coordination sphere symmetry of di-*n*-butyltin(IV) complexes containing ligands with {O,O} donor atoms. *Journal of Radioanalytical and Nuclear Chemistry*, **232**, 1-2, 151-158 (1998)

If = 0.729

Ind. cit.: 2

5. M. Ghisletta, L. Hausherr-Primo, **K. Gajda-Schrantz**, G. Machula, L. Nagy, H. W. Schmalle, G. Rihs, F. Endres, K. Hegetschweiler

Structure, stability, and redox properties of Mn(II), Fe(II), Co(II), and Co(III) complexes with 1,3,5-triamino-1,3,5-trideoxy-*cis*-inositol.

Inorganic Chemistry, **37**, 5, 997-1008 (1998)

If = 2.965

Ind. cit.: 10

1997

4. K. Burger, N. Buzás, **K. Gajda-Schrantz**, T. Gajda, Zs. Nemes-Vetéssy, A. Vértes, E. Kuzmann, I. Dékány, M. Szekeres

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If = **2.251**

Ind. cit.: 22

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2. L. Nagy, T. Gajda, J. Kürti, **K. Schrantz** and K. Burger: Spectroscopic studies of iron(III) complexes formed with D-saccharose and D-glucose in solid state and in solution. *Journal of Radioanalytical and Nuclear Chemistry*, **209**, 1, 225-234 (1996)

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Ind. cit.: 5

1. A. Vértes, K. Süvegh, E. Kuzmann, K. Burger, L. Nagy, **K. Schrantz**, N. Buzás: Nuclear techniques in structural chemistry. *Journal of Radioanalytical and Nuclear Chemistr.*, **203**, 2, 399-412 (1996)

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