

Prof. Inger Odnevall Wallinder, Ph.D. 651104

144 Peer-reviewed scientific papers 1991-2017 (121 papers- 2002-2017): h-index: 37 (google scholar);
RG (Research gate): score 40.45 (Feb-17)

1. *Analysis of historic copper patinas. Influence of inclusions on patina uniformity* T. Chang, I. Odnevall Wallinder, D. de la Fuente, B. Chico, M. Morcillo, J.-M. Welter, C. Leygraf, **Materials**, 10, 298, doi:10.3390/ma10030298 (2017)
2. *Atmospheric corrosion of Zn-Al coatings in a simulated automotive*, X. Zhang, I. Odnevall Wallinder, C. Leygraf, **Surface Engineering**, 10.1080/02670844.2017.1305658 (2017)
3. *Tungsten carbide nanoparticles in simulated natural surface water with natural organic matter: dissolution, agglomeration, sedimentation and interaction with Daphnia magna*, J. Hedberg, M. T. Ekvall, T. Cedervall, L.-A. Hansson, I. Odnevall Wallinder, **Environmental Science: Nano**, 10.1039/C6EN00645K (2017)
4. *Nanoparticles of WC-Co, WC, Co and Cu of relevance for traffic wear particles – particle stability and reactivity in synthetic surface water and influence of humic matter*, Y. S. Hedberg, J. F. Hedberg, S. Isaksson, N. Mei, E. Blomberg, S. Wold, I. Odnevall Wallinder, **Environmental Pollution**, DOI 10.1016/j.envpol.2017.02.006 (2017)
5. *Antibacterial silver nanocluster/silica composite coatings on stainless steel*, M. Ferraris, S. Perero, S. Ferraris, M. Miola, E. Vernè, S. Skoglund, E. Blomberg, I. Odnevall Wallinder, **Applied Surface Science**, 396, 1546–1555 (2017)
6. *On the mechanism of rust exfoliation in marine environments*, M. Morcillo, B. Chico, D. de la Fuente, I. Odnevall Wallinder, C. Leygraf, **Corrosion Science and Technology section of Journal of The Electrochemical Society**, 10.1149/2.0131702jes, 164 (2) C8-C16 (2017)
7. *Effect of sonication on particle dispersion, administered dose and metal release of non-functionalized non-inert metal nanoparticles*, S. Pradhan, J. Hedberg, E. Blomberg, S. Wold, I. Odnevall Wallinder, **Journal of Nanoparticle Research**, 18: 285, DOI: 10.1007/s11051-016-3597-5 (2016)
8. *Surface passivity largely governs the bioaccessibility of nickel-based powder particles at human exposure conditions*, Y.S. Hedberg, G. Herting, S. Latvala, K. Elihn, H.L. Karlsson, I. Odnevall Wallinder. **Regulatory Toxicology and Pharmacology**, 81: 162-170, 2016.
9. *Ordering and interaction in monolayers of mixed thiols on gold*, Z. Besharat, D. Wakeham, M. Johnson, G. Luengo, A. Greaves, I. Odnevall Wallinder, M. Göthelid, M.W. Rutland, **Journal of Colloid and Interface Science**, 484, 279-290 (2016)
10. *Nickel Release, ROS Generation and Toxicity of Ni and NiO Micro- and Nanoparticles*, S. Latvala, J. Hedberg, S. Di Bucchianico L. Möller, I. Odnevall Wallinder, K. Elihn, H. L. Karlsson, **PLoS ONE** 11(7): e0159684. doi:10.1371/journal.pone.0159684 (2016)
11. *Electrochemical surface oxide characteristics of metal nanoparticles (Mn, Cu and Al) and the relation to toxicity*, Y.S. Hedberg, S. Pradhan, F. Cappellini, M.-E. Karlsson, E. Blomberg, H.L. Karlsson, I. Odnevall Wallinder, J.F. Hedberg, **Electrochimica Acta**, 212, 360-371, doi:10.1016/j.electacta.2016.07.017 (2016)
12. *Synergistic effects of gelatin and convection on copper foil electrodeposition*, Tingru Chang, Ying Jin, Lei Wen, Chensheng Zhang, Christofer Leygraf, Inger Odnevall Wallinder, Junping Zhang, **Electrochimica Acta**, 211, 245–254 (2016)
13. *Metal release and corrosion resistance of different stainless steel grades in simulated food contact* N. Mazinianian, G. Herting, I. Odnevall Wallinder, Y. Hedberg, **Corrosion**, 72(6) 775-790 DOI 10.5006/2057 (2016) <http://corrosionjournal.org/doi/abs/10.5006/2057>.
14. *The Importance of Extracellular Speciation and Corrosion of Copper Nanoparticles on Lung Cell Membrane Integrity*, J. Hedberg, H.L. Karlsson, Y. Hedberg, E. Blomberg, I. Odnevall Wallinder, **Colloids and Surfaces B: Biointerfaces**, 141, 291–300 (2016) Most downloaded articles from Colloids and Surfaces B: Biointerfaces in the last 90 days (2016-05-22)

15. Optimization of an air-liquid interface exposure system for assessing toxicity of airborne nanoparticles, S. Latvala, J. Hedberg, L. Möller, I. Odnevall Wallinder, H.L. Karlsson, K. Elihn, **Journal of Applied Toxicology**, 36, 1294–1301 DOI: 10.1002/jat.3304 (2016)
16. The protective role of hydrozincite during initial corrosion of a Cu40Zn alloy in chloride-containing laboratory atmosphere, X. Zhang, X. Liu, I. Odnevall Wallinder, C. Leygraf, **Corrosion Science**, 103, 20-29 (2016)
17. Metal release from stainless steel in biological environments – a review, Y.S. Hedberg, I. Odnevall Wallinder, **Biointerphases – special issue on Ions and Solvation at Biointerphases**, 11(1), 018901-1 018901-17 (2016) DOI 10.1116/1.4934628, (most read paper in Biointerphases-Dec.15-
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18. Dry generation of CeO₂ nanoparticles and deposition onto a co-culture of A549 and THP-1 cells in air-liquid interface – dosimetry considerations and comparison to submerged exposure, F. Cappellini, S. Di Bucchianico, S. Latvala, M. Malmlöf, M. Kippler, K. Elihn, I. Odnevall Wallinder, P. Gerde, H. Karlsson, MS in preparation
19. A novel explanation for the enhanced colloidal stability of silver nanoparticles in the presence of an oppositely charged surfactant, S. Skoglund, E. Blomberg, I. Odnevall Wallinder, I. Grillo, J. Skov Pedersen, M. Bergström, MS in preparation
20. Genotoxic and mutagenic properties of Ni and NiO nanoparticles investigated in three different in vitro model systems, E. Åkerlund, F. Cappellini, S. di Bucchianico, S. Skoglund, I. Odnevall Wallinder, G. Hendriks H. L. Karlsson, MS in preparation
21. Release of hexavalent chromium and other metals from stainless steel welding fume particles – a multi-analytical characterization of size-separated particle fractions, N. Mei, L. Belleville, Y. Cha, U. Olofsson, I. Odnevall Wallinder, K.-A. Persson, Y. S. Hedberg, MS in preparation
22. Influence of humic acid and dihydroxy benzoic acid on the agglomeration, sedimentation and dissolution of copper, manganese, aluminum and silica nanoparticles, S. Pradhan, J. Hedberg, J. Rosenqvist, C. Jönsson, S. Wold, E. Blomberg, I. Odnevall Wallinder, MS in preparation
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Main supervisor of the following PhD (8) and Licentiate (7) theses

S. Skoglund, Doctoral Thesis, "Surface reactivity of metal nanoparticles – importance of surface active agents and biomolecules from a transformation, mobility and toxicity perspective, Feb. 2, 2017

N. Mazinianian, Doctoral Thesis, "Metal release and corrosion of stainless steel in simulated food contact", Sep. 22, 2016

X. Zhang, Doctoral Thesis, "Atmospheric corrosion of zinc-aluminum and copper-based alloys in chloride-rich environments - Microstructure, corrosion initiation, patina evolution and metal release", Sep. 26, 2014.

Y. Hedberg, Doctoral Thesis, "Stainless Steel in Biological Environments – Relation between Material Characteristics, Surface Chemistry and Toxicity", Dec 14, 2012.
(receiver of the ECS Morris Cohen Award 2014, established by the Electrochemical Society, US,

for the best doctoral thesis in corrosion science world-wide) and the AkzoNobel Nordic award for surface and colloid chemistry 2014 due to accomplishments during PhD-project).

D. Lindström, Licentiate Thesis, "Galvanized steel in outdoor constructions – metal runoff, corrosion and patina formation" Dec 20, 2010.

Y. Hedberg, Licentiate Thesis, "Environmental and health aspects of corrosion – importance of chemical speciation", Oct 28, 2010.

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Co-supervisor of the following PhD theses

A. Gliga, Doctoral thesis-KI (Karolinska Institutet), "Nanotoxicology on the Right Track: Focus on Metal and Metal Oxide Nanoparticles", Nov 4, 2016

X. Wang, Doctoral thesis, "Protein Interactions with Metal Surfaces - Adsorption and Metal Release", April 21, 2015

P. Qiu, Doctoral thesis, "Quantified In Situ Analysis of Initial Atmospheric Corrosion : Surface heterogeneity, galvanic effects and corrosion product distribution on zinc, brass and Galvalume", June 14, 2011

2) Selected conference proceedings and reports (2002-2016)

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2. A Predictive Model for Zinc Runoff Rates from Zinc sheet and Galvanized steel used in outdoor construction, I. Odnevall Wallinder and C. Leygraf, **Electrochemical Society Prime Meeting**, Oct. 2-7, Honolulu, Hawaii, 2016
3. Exploration of microstructure and surface composition on corrosion initiation of a Cu-Al-Zn alloy Tingru Chang, Ying Jin, Christofer Leygraf, Inger Odnevall Wallinder, **Eurocorr**, Sept. 11 – 15, Montpellier, France, 2016
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38. Material characterization and elemental release studies in synthetic biological media, and in the OECD Transformation Dissolution protocol media of a ferrosilicocalcium alloy, G. Herting, T.Jiang, I. Odnevall Wallinder, Commissioned by Euroalliances (on behalf of the CaSi-consortium) (2010)
39. Material characterization and elemental release studies in synthetic biological media, and in the OECD Transformation Dissolution protocol media of Ferrosilicon alloys, G. Herting, T.Jiang, I. Odnevall Wallinder, Commissioned by Euroalliances (on behalf of the FeSi-consortium) (2010)
40. Bioaccessibility of zirconium and titanium released from different zirconium and titanium compounds in synthetic biological media, I. Odnevall Wallinder and Y. Ullmann, Internal report commissioned by QIT Fer et Titane, RTIT Centre de Technologie, Canada (2009)
41. Bioaccessibility of molybdenum released from pure molybdenum and different molybdenum compounds in synthetic biological media., I. Odnevall Wallinder and Y. Ullmann, Internal report commissioned by the International Molybdenum Association, IMOA (2009)
42. Bioaccessibility studies of silver and silver compounds in synthetic biological media, K. Midander, I. Odnevall Wallinder, Internal report commissioned by the EBRC GmbH (2008)
43. Bioaccessibility studies of commercially available tin metal particles (2-11 µm) in synthetic biological media, K. Midander, I. Odnevall Wallinder, Internal report commissioned by the ITRI Ltd on behalf of the REACH Tin Metal Consortium (2008)
44. Orientating analysis of bioaccessibility of molybdenum released from different molybdenum compounds in synthetic biological media, K. Midander, I. Odnevall Wallinder, C. Leygraf, Internal report commissioned by the International Molybdenum Association, IMOA (2007)
45. Assessment of bioaccessibility by comparative analysis of metal cation release from antimony trioxide and titanium dioxide particles in synthetic biological media. K. Midander, I. Odnevall Wallinder, C. Leygraf, Commissioned by the International Antimony Oxide Industry Association, IAIOA (2007)

46. *Orientating analysis of bioaccessibility of different metals released from various Ti slag materials in synthetic biological media*, K. Midander, I. Odnevall Wallinder, C. Leygraf, Commissioned by UGI (Upgraded Ilmenite) REACH Committee (2007)

Review papers, book chapters, books (2002-2015)

- 1 ATMOSPHERIC CORROSION, 2nd edition, C. Leygraf, I. Odnevall Wallinder, J. Tidblad, T.E. Graedel John Wiley & Sons (June 2016)
- 2 Contributed with data and figures in Outokumpu Corrosion Handbook, 11th Edition, 2015.
- 3 Odnevall Wallinder, I., Herting, G. (2010) Chapter on alloys, HERAG (Health Risk Assessment Guidance for Metals) Document, Invitation from EuroMetaux, Eurofer (European Confederation of Iron and Steel Industries) and ICMC (International Council of Mining and Metals)
- 4 Establishment of the ISO 17752:2012 standard: Corrosion of metals and alloys — Procedures to determine and estimate runoff rates of metals from materials as a result of atmospheric corrosion, ISO (2012)
- 5 Providing the underlying data set for the establishment of the ISO 21207 International standard, Corrosion tests in artificial atmospheres — Accelerated corrosion, tests involving alternate exposure to corrosion-promoting gases, neutral salt-spray and drying (2004-06-01)

Popular science papers and presentations (2002-2016)

1. *Metalliska (nano)partiklar i vår miljö*, Presentation för studenter från Åva Gymnasium (rekryteringsaktivitet), Nov 8, 2016
2. *Metal surfaces and bioelution – the KTH approach*, I. Odnevall Wallinder and G. Herting, Invited speaker, 8th International meeting of the Task Force on Exposure Assessment, OECS, Dortmund, Sep. 1, 2016
3. *Rost kan skydda mot rost*, I. Odnevall Wallinder, G. Herting, **Forskning & Framsteg.**, 58, 6/2016, <http://fof.se/tidning/2016/6/artikel/rost-kan-skydda-mot-rost> (2016)
4. *Compliance tests of stainless steel as a food contact material using the CoE test guideline*, Y. Hedberg, N. Mazinianian, I. Odnevall Wallinder, Technical report for webpage publication, http://www.euro-inox.org/pdf/health/KTH_report_EN.pdf, commissioned by Team Stainless, Dec. (2014).
5. *Stainless steel in food contact - How does citric acid interact with the surface?* N. Mazinianian, I. Odnevall Wallinder, Y. Hedberg, Poster presentation at the **Symposium on surface and materials chemistry, Realizing reformulation**, Oct. 22-24, 2014, Lund, Sweden. Poster available as pdf on: https://www.researchgate.net/profile/Yolanda_Hedberg/publication/268279489_STAINLESS_STEEL_IN_FOOD_CONTACT_-_How_does_citric_acid_interact_with_the_surface/links/5467c5540cf2f5eb18036e61.pdf
6. *Micelle clusters of surfactant stabilise silver nanoparticles in solution*, S. Skoglund, E. Blomberg, J. Hedberg, I. Odnevall Wallinder, M. Bergström, 13th Nordic workshop on Scattering from Soft Matter, Ångströmlaboratoriet, Uppsala University, Jan 20-21, 2016
7. *Safe Food Preparation Using Stainless Steel*, http://www.worldstainless.org/Files/issf/non-image-files/PDF/KTH/Safe_Food_Preparation_Using_Stainless_Steel.pdf
8. *Smarta materialval till nytta för miljön*, I. Odnevall Wallinder, inbjuden talare, **KTH-Sustainability Research Day**, 21 Okt. 2015
9. *Rosttröga stål- korrosionsaspekter*, G. Herting, I. Odnevall Wallinder, **NYHETER OM STÅLBYGGNAD**, Fokus Arkitekter, Nr.2, 33-34, 2015
10. *Compliance tests or stainless steel as a food contact material using the CoE test guideline*, Y. Hedberg, N. Mazinianian, I. Odnevall Wallinder, **International Stainless Steel Forum, ISSF, internal webpage**, 2015

11. Surface properties of metal particles, **Key note speaker**, I. Odnevall Wallinder, **Höganäs Powder Symposium**, Örenäs Slott, Nov 17-18, 2014
12. Chromium allergy due to contact with leather: mechanisms and recommendations for prevention, poster, Y. Hedberg, I. Odnevall Wallinder, C. Lidén, **Forté Talks**, Nacka, Stockholm, 2014
13. Metaller, miljö och myter; Invited lecturer at the Norwegian conference for 350 architects and building constructors, **Metall 13**, Oslo, Nov 6, 2013
14. Metaller, miljö och myter; Invited lecturer at the national conference for 350 architects and building constructors, **PLÅT 13**, Lindholmen Conf. Centre, Göteborg, Mars 7, 2013
15. Spridning av metaller och nanopartiklar från utomhuskonstruktioner och konsumentprodukter, Presentation, **Fredagsforum – Länsstyrelsen**, Stockholm, 8 dec., 2012
16. Vackra, hållbara och miljövänliga metaller, Intervju och artikel, **Plåt & Vent**, 2, 24-27, 2012
17. Vad tar den koppar som frigörs från koppartak vägen?, G. Herting, I. Odnevall Wallinder, **Bygg och Teknik**, 4, 46-48 (2012).
18. Spridning av metaller och nanopartiklar från konsumentprodukter, Invited lecturer at the national workshop on Nanopartiklar i miljön - riskerna med belastningen av nanopartiklar från konsumentprodukter och vägtransporter, IVL Svenska Miljöinstitutet, 3 maj 2012
19. Metaller, miljö och myter; Invited lecturer at the national conference for 350 architects and building constructors, **PLÅT 12**, Malmö Högskola, Malmö, Feb. 2, 2012
20. Copper architecture and the environment, Interview of Prof. Odnevall Wallinder by Chris Hodson, **Copper Architecture Forum**, 31, 32-33, 2011
21. Protective green patinas on copper in outdoor constructions, Y. Hedberg and I. Odnevall Wallinder, *Journal of Environmental Protection*, JEP, doi: 10.4236/jep.2011.27109, Vol. 2 No. 7, 956-959 (2011)- open access
22. Korrosion, Myter och Miljö, Invited lecturer at the national conference for 350 architects and building constructors, **PLÅT 11**, Stockholm Water Front, Feb. 3, 2011
23. Health effects of metal particles – research at the Stockholm Particle group, KTH, Oral presentation at YKI in connection to "Integrating Nanomaterials in Formulations" – NanoFormulation 2010, June 9, 2010
24. Die Bindekapazität von Entwässerungssystemen für Kupfer von Kupferdächern - Vergleich von Regenwasserkupferkonzentrationen in einem Kupferdachentwässerungssystem und einem Parkplatz, Y. Hedberg, P. Dromberg, I. Odnevall Wallinder, **Wasser- /Abwassertechnik**, 3/2010, 22-23, (2010)
25. Vad tar den koppar som frigörs från koppartak vägen?, I. Odnevall Wallinder, Y. Ullmann, P. Dromberg, **Bygg och Teknik**, 4/09, 28, (2009).
26. Metals and alloys in external constructions – environmental interactions, Nacka Kommun, March 27, 2009
27. Metals and alloys in external constructions – changes in speciation and bioavailability of corrosion-induced metal runoff upon environmental entry, Statens Fastighetsverks Kulturarvsenhet, March 2, 2009
28. Corrosion- not only a material-related topic, Open lecture, Seminar Series: Chemical Science and Engineering, Jan 30, 2009
29. Varmförzinkat stål i samhället, I. Odnevall Wallinder, D. Lindström, G. Herting, C. Leygraf, **Bygg och Teknik**, Maj, 2008
30. Varmförzinkat stål i samhället, A. Hirn, I. Odnevall Wallinder, **Ytforum**, 3, 17, 2008
31. Bioaccessibility and surface reactivity of nano- and micron-sized particles, Course on "the health risk assessment of metals, their alloys and compounds under REACH, Finnish Institute of Occupational Health, Helsinki, Sept. 29, 2008
32. Metal release from particles and potential health effects, Open lecture, Royal Institute of Technology, April 23, 2008
33. Metals and alloys in external constructions – changes in speciation and bioavailability of corrosion-induced metal runoff upon environmental entry, Metals Task force, Seminar on metal bioavailability - results and practical applications, Oct. 18, 2007

34. Modelling of copper flows into soil and water, Meeting of the Roofing Environmental Affairs task force-European copper institute, Budapest, June 4, 2007
35. Metallutlösning från rena metaller och legeringar, Seminarium om materialkompetens inom medicinsk teknik, KorrosionsCentrum, KIMAB/ KTH, March 8, 2007.
36. Passive films on stainless steel – recent nano-range research, C. Olsson, G. Herting, I. Odnevall Wallinder, **Acom** (Outokumpu's Scientific magazine about Stainless), 2, 15, 2006
37. Vilken inverkan på miljön har metallavrinning från utomhuskonstruktioner, Sunda Hus, Miljöarbete i praktiken, Tyrénshuset, Stockholm, Nov. 22, 2006.
38. Release of main metal constituents from alloys and the pure metals, Poster, "Towards the city surface of tomorrow", Institute for Water Quality, Resources, and Waste Management, Vienna University of Technology, Federal Ministry of Agriculture, Forestry, Environment and Water Management, June 8-9, Vienna, Austria, 2006
39. Release of main metal constituents from alloys and the pure metals, Poster, "Towards the city surface of tomorrow", Institute for Water Quality, Resources, and Waste Management, Vienna University of Technology, Federal Ministry of Agriculture, Forestry, Environment and Water Management, June 8-9, Vienna, Austria, 2006
40. Corrosion-induced release of zinc from various zinc-based construction materials in a marine environment, - Poster, "Towards the city surface of tomorrow", Institute for Water Quality, Resources, and Waste Management, Vienna University of Technology, Federal Ministry of Agriculture, Forestry, Environment and Water Management, June 8-9, Vienna, Austria, 2006
41. Corrosion-Induced Metal Release from Metals and Alloys, Workshop on an Assessment Methodology for Preparations and Special Preparations, Hotel Metropole, Brussels, Oct. 10-11, 2006.
42. Corrosion-induced copper runoff from building materials, Meeting of the Roofing Environmental Affairs task force – European Copper in Architecture Campaign, European Copper Institute, Barcelona, Spain, June 28, 2006
43. Nygammal nanoteknik-passivfilmer på rostfria stål, C. Olsson, G. Herting, I. Odnevall Wallinder, **Bergsmannen** 6, 16-17, 2005
44. Environmental fate of corrosion-induced metal release from stainless steel, I. Odnevall Wallinder, S. Bertling, G. Herting and C. Leygraf, **Nordic Steel and Mining Review**, 32, 2005
45. Runoff and fate of zinc from outdoor constructions - Selected results from a five-year exposure programme (short summary"), I. Odnevall Wallinder, S. Bertling and C. Leygraf, **Protective Coatings Europe**, Sep., 2-4, 2005
46. Kupfer- und Zinkabschwemmungen von Metalldächern, I. Odnevall Wallinder, S. Bertling, and C. Leygraf, **Wasser- /Abwassertechnik**, 1-2, 2005
47. Friqörelse av koppar och zink från byggnadsmaterial och växelverkan med omgivande miljö, I. Odnevall Wallinder, S. Bertling, C. Leygraf, **Bygg & Teknik**, 4, 2005
48. Modelling of copper flows into soil and water, Meeting of the Roofing Environmental Affairs task force-European copper institute, Luxemburg, June 27, 2005
49. Release of chromium, nickel and iron from pure samples of the metals and 304 and 316 stainless steel induced by atmospheric corrosion. A combined field and laboratory study, I. Odnevall Wallinder, S. Bertling, G. Herting and C. Leygraf, **ACOM** (A corrosion management and applications engineering magazine from Outokumpu Stainless), 2, 2004
50. Kan miljöeffekter påvisas från utomhuskonstruktioner i rostfritt stål?, I. Odnevall Wallinder, S. Bertling, C. Leygraf, **Bygg & Teknik**, 2004
51. Environmental interaction of copper runoff from external structures, Meeting of the Roofing Environmental Affairs task force - European copper institute, Edinburgh, UK, June 8, 2004
52. Påverkar metaller i utomhuskonstruktioner vår miljö, Stål 2004, Borlänge, May 7, Swedish Steel Association, 2004
53. Vad sker med koppar i avrinningsvatten i kontakt med miljön?, I. Odnevall Wallinder and S. Bertling, **Kopparforum** no 15, 2003
54. Korrosion och avrinning av zink från takmaterial, I. Odnevall Wallinder, S. Bertling, C. Leygraf, **Bygg & Teknik**, 2/03, 2003

55. *Environmental aspects of metal runoff from external surfaces*, Committee of European Environmental Engineering Societies, Technical Advisory Board on Climatic and Atmospheric Pollution Effects on Materials and Equipment, Helsinki, Sept. 18, 2003
56. *Environmental aspects of copper runoff*, Meeting of the Roofing Environmental Affairs task force - European copper institute, Athens, Greece, June 3, 2003
57. *Miljöaspekter vid avrinning från tak*, S. Bertling, I. Odnevall Wallinder and C. Leygraf, **Stålbyggnad**, ISBN 91 7127 033 7, 2002
58. *Miljöaspekter av metallavrinning från taktytor av zink och rostfritt stål*, Stål 2002, Berns Salonger, 16 maj, 2002 "Environmental effects of metals induced by atmospheric corrosion", Symposium on Nanostructured Materials – focusing on contributions by Women in Materials Science, KTH-175 years, KTH, April 11, 2002

Conferences (selected 2002-)

1. *Tingru Chang, Ying Jin, Christofer Leygraf, Inger Odnevall Wallinder, Exploration of microstructure and surface composition on corrosion initiation of a Cu-Al-Zn alloy, EUROCORR 2016, Montpellier, France, Sept 11-15, 2016*
2. *X. Zhang, I. Odnevall Wallinder and C. Leygraf, A fundamental study of the protective role of hydrozincite formed on brass in chloride-containing atmospheres, EUROCORR 2015, Graz, Austria, Sept 6-10, 2015*
3. *J. Hedberg, H L Karlsson, Y. Hedberg, F. Cappelin, E. Blomberg, I. Odnevall Wallinder, The importance of chemical speciation, surface properties and corrosion of copper, manganese and aluminum metal nanoparticles on lung cell toxicity, International Conference on the Environmental Effects of Nanoparticles and Nanomaterials, Vienna, Austria, Sept. 2015*
4. *Y. Rodhe, S. Skoglund, I. Odnevall-Wallinder, Z. Potacova, and L. Möller, Toxicity of metal nanoparticles, focusing on copper-based nanoparticles, Poster, NANOTOX 2014, 7th International Nanotoxicology Congress" April 23-26, Antalya, Turkey, 2014*
5. *S. Roos, C. Jönsson, J. Hedberg, C. Kaplin, I. Odnevall Wallinder, "Integrating real metal runoff data to the life cycle assessment of alloys", SETAC Europe 25th Annual Meeting, Barcelona, Spain, 3-7 May, 2015*
6. *A. Mörsdorf, I. Odnevall Wallinder, Y. Hedberg, 'Bioaccessibility of micron-sized powder particles of molybdenum metal, molybdenum oxides and ferromolybdenum – Importance of surface oxides', poster presentation at the annual meeting of GfKORR, 4-5 November 2014, Frankfurt, Germany.*
7. *N. Mazinianian, I. Odnevall Wallinder, Y. Hedberg, 'Influence of citric acid on the metal release of stainless steels', proceedings and oral presentation (N. Mazinianian) at the 19th International Corrosion Congress, 2-6 November, 2014, Jeju, Korea.*
8. *Y. Hedberg, H.L. Karlsson, J. Hedberg, E. Blomberg, I. Odnevall Wallinder, 'Interactions between nanoparticles and biosystems and their importance for toxicity', invited oral presentation at the symposium on surface and materials chemistry, Realizing reformulation, 22-24 October, 2014, Lund, Sweden.*
9. *"Understanding chromium release from leather that causes contact dermatitis", Y. Hedberg, I. Odnevall Wallinder, C. Lidén, Poster, 12th Congress of the European Society of Contact Dermatitis Barcelona, 25-28 June 2014*
10. *Release and stability of aluminum metal nanoparticles in surface water – effects of particle loading, E.N. Yunda, G. Herting, I. Odnevall Wallinder, A. Yu. Godymchuk, XI International Conference of Students and Young Scientists "Prospects of Fundamental Sciences Development" Russia, Tomsk, 22d–25th April 2014*
11. *"Mechanistic studies of corrosion product flaking on copper and copper-based alloys in marine environments", Oral presentation, X. Zhang, C. Leygraf, I. Odnevall Wallinder, 224th Electrochemical Society Meeting, San Francisco, US, Oct. 30, 2013*
12. *"Dissolution of nanoparticles of Zn metal and ZnO in synthetic alveolar fluid", E Yunda, I Odnevall Wallinder, A Godymchuk, D. Kuznetsov, 2nd QNano Integrating Conference "Quality in nanosafety assessment " driving best practice and innovation#, Feb. 27 – March 1 2013, IMG Conference Centre, Prague, Czech Republic*
13. *"The fate of silver nanoparticles in municipal wastewater treatment plants" J. Hedberg, I. Odnevall Wallinder, G. Herting, C. Baresela, Nordiwa 2013, 13th Nordic Waste Water Conference, Oct. 8-10, 2013*
14. *"Mechanistic studies of corrosion product flaking on copper and copper-based alloys in marine environments", X. Zhang, S. Goidanich, C. Leygraf, I. Odnevall Wallinder, 224th ECS Meeting, San Francisco, CA, USA – October 27-November 1, 2013*
15. *"Surface characteristics, material chemistry and toxicity - in-depth studies on stainless steel in human contact.", Invited plenary speaker, I. Odnevall Wallinder, Materials for Tomorrow, Chalmers annual*

conference & division of surface chemistry and materials chemistry annual symposium, Gothenburg, Sweden, 23-25 Oct. 2012

16. *"Metal release from building materials and its influence on the environment"*, Invited plenary speaker, I. Odnevall Wallinder, Swerea KIMAB Open House and Inauguration, Electrum, Kista, Oct 23, 2012
17. *"Relevance of in vitro studies for in vivo inhalation toxicity of stainless steel powder"*, POSTER, Y. Hedberg, H. Stockmann-Juvala, N. K. Dhinsac, D. R. Griffiths, A. Zitting, T. Santonen, I. Odnevall Wallinder, Eurotox 2012 Congress of the European Societies of Toxicology, June 17-20, 2012
18. *"Interactions of different proteins with metal surfaces"*, Y. Hedberg, M. Lundin, M. Killian, E. Blomberg, S. Virtanen, I. Odnevall Wallinder. Keystone symposia on Molecular and Cellular Biology Proteomics, Interactomes (F2), Stockholm, May 7-12, 2012
19. *"Hemolysis of silica particles: importance of surface properties and plasma corona"*, J. Shi, Y. Hedberg, M. Lundin, I. Odnevall Wallinder, HL Karlsson, L. Möller, Eurotox 2012 Congress of the European Societies of Toxicology, June 17-20, 2012
20. *"Cellular dose and toxicity of Ag and CuO nanoparticles: the importance of a Trojan horse type mechanism"*, HL Karlsson, P. Cronholm, I. Odnevall Wallinder, L. Möller, Poster –Society of Toxicology's 51st Annual Meeting and ToxExpo, March 11–15, 2012, San Francisco, California
21. *"Nanoparticles and oxidative DNA damage – Trojan horses and assay interactions"*, HL Karlsson, P. Cronholm, J. Kain, T. Lowe, I. Odnevall Wallinder, L. Möller, UKEMS / Dutch EMS-sponsored Workshop on Biomarker of Exposure and Oxidative DNA Damage & 7th GUM 32P-Postlabelling Workshop, Munster, March 28–29, 2011
22. *"Size-dependent toxicity of metal oxide particles"*, HL Karlsson, P. Cronholm, J. Gustafsson, K. Elihn, K. Midander, I. Odnevall Wallinder, L. Möller, 2nd Nobel Forum Mini-symposium on Nanotoxicology, KI, Oct 23, 2010
23. *"Use of read-across in the health risk assessment of ferrochromium alloys under REACH"*, T. Santonen, H. Stockmann-Juvala, I. Odnevall Wallinder, G. Darrie, A. Zitting, The 12th international ferro alloy congress (INFACON XII), Sustainable future, June 6-9, 2010
24. *"Bioaccessibility of ferro-chromium and ferro-silicon-chromium particles compared to pure metals and stainless steel – aspects of human exposure"*, K. Midander, A. de Frutos, G. Darrie, I. Odnevall Wallinder, The 12th international ferro alloy congress (INFACON XII), Sustainable future, June 6-9, 2010
25. *Metal release from iron- and chromium-based particles in artificial sweat and artificial tear fluid*, Y. Ullmann, K. Midander, I. Odnevall Wallinder, 5th Kurt Schwabe Symposium in Electrochemistry, University of Erlangen-Nurnberg, Erlangen, Germany, May 24-28, 2009
26. *"Zinc released from roofing materials and its environmental interaction. Results from a 10-year field exposure in Stockholm"*, I. Odnevall Wallinder and D. Lindström, 12th EuCheMS International Conference on Chemistry and the Environment, June 14-17, Stockholm, 2009
27. *"Copper-based alloys in outdoor applications – aspects on patina growth, composition and dissolution at different urban and marine sites in Europe"*, S. Goidanich, D. Lindström, M.A. Arenas, J.de Damborenea, J.M. Sanchez Amaya, F.J. Botana, N. Le Bozez, I. Odnevall Wallinder, 12th EuCheMS International Conference on Chemistry and the Environment, June 14-17, Stockholm, 2009
28. *"Toxicity induced by nano- and micrometer-sized copper and copper(II)oxide particles – an interdisciplinary study"*, P. Cronholm, K. Midander, H.L. Karlsson, L. Möller, C. Leygraf, I. Odnevall Wallinder, 4th International Conference on Nanotechnology, Occupational and environmental health, Aug 26-29, 2009
29. *"Copper nanoparticles are highly cytotoxic and interact with hemoglobin"*, H.L. Karlsson, P. Cronholm, J. Gustafsson, K. Midander, I. Odnevall Wallinder, L. Möller, 4th International Conference on Nanotechnology, Occupational and environmental health, Aug 26-29, 2009
30. *"An interdisciplinary study of nano- and micron sized metal particles, their surface properties, metal release and ability to induce toxicity"*, K. Midander, P. Cronholm, H. Karlsson, K. Elihn, L. Möller, C. Leygraf, I. Odnevall Wallinder, Surface and Colloid Science for Advanced Materials – 8th Annual Surface and Colloid Symposium" Lund, 19-21 Nov., 2008
31. *"Long-term barrier effects of Cr(III) and Cr(VI) treated zinc surfaces from a metal runoff perspective"*, I. Odnevall Wallinder, D. Lindström, Proc. European General Galvanizers Association, Assembly meeting, Copenhagen, Denmark, June 10, 2008
32. *"Bioaccessibility of nano- and micron-sized metallic particles in simulated lung systems"*, K. Midander, J. Pan, C. Leygraf, I. Odnevall Wallinder, Proc. 17th International Corrosion Congress, Oct. 6-10, Las Vegas, US (2008)
33. *"Effect of the environment on the metal release and corrosion behaviour of different copper-based alloys: field exposures at 5 different sites in Europe"*, S. Goidanich, I. Odnevall Wallinder, M.A. Arenas, J. De Damborenea, M. Ormellese, J.M Sánchez Amaya, F.J. Botana, N. Le Bozec, Proc. 17th International Corrosion Congress, Oct. 6-10, Las Vegas, US (2008)

34. "Long-term barrier effects of Cr(III)- and Cr(VI)-treated zinc surfaces on metal release", D. Lindström, I. Odnevall Wallinder, Proc. 17th International Corrosion Congress, Oct. 6-10, Las Vegas, US (2008)
47. "Influence of surface finish on stainless steel AISI 304 on the metal release process in synthetic biological media". G. Herting, C. Leygraf, I. Odnevall Wallinder, Proc. 17th International Corrosion Congress, Oct. 6-10, Las Vegas, US (2008)
48. "A comparison between corrosion-induced metal release from copper-based alloys at field conditions and at laboratory simulated bulk conditions using the OECD T/D test", S. Jafarzadeh, S. Goidanich, I. Odnevall Wallinder, Proc. 17th International Corrosion Congress, Oct. 6-10, Las Vegas, US (2008)
49. "Elaboration of a metal release test for massive metal sheet. – effect of different parameters on the copper release rate". Y. Ullmann, S. Jafarzadeh G. Herting, I. Odnevall Wallinder, Proc. 17th International Corrosion Congress, Oct. 6-10, Las Vegas, US (2008)
50. "Long-term barrier effects of Cr(III) and Cr(VI)-treated zinc surfaces from a metal release perspective", I. Odnevall and D. Lindström, European General Galvanizers Association, Assembly Meeting, Copenhagen, Denmark, June 10, 2008
51. "Wax Based Antigrffiti Coatings on Artificially Patinated Copper: Effects on Copper Release and Patina Composition", S. Goidanich, I. Odnevall Wallinder, Conservation Science, Politecnico di Milano, Milano, Italy 10-11 May 2007,
52. "Metal release from powder particles in synthetic biological media", K. Midander, J. Pan, I. Odnevall Wallinder, C. Leygraf, 14th Nordic Corrosion Congress, NKM14, Copenhagen May, 14-15, 2007
53. "Predictive modelling and mapping of corrosion-induced copper runoff from external buildings", I. Odnevall Wallinder, B. Bahar, C. Leygraf and J. Tidblad, 14th Nordic Corrosion Congress, NKM14, Copenhagen May, 14-15, 2007
54. "Corrosion-induced metal release from copper-based alloys compared to their pure elements", S. Goidanich, I. Odnevall Wallinder, G. Herting and C. Leygraf, 14th Nordic Corrosion Congress, NKM14, Copenhagen May, 14-15, 2007
55. Wax Based Antigrffiti Coatings on Artificially Patinated Copper: Effects on Copper Release and Patina Composition, S. Goidanich, I. Odnevall Wallinder, , Conservation Science 2007, 10-11 May (2007), Politecnico di Milano, Milano, Italy
56. "Release of main metal constituents from alloys and the pure metals", Poster, Towards the city surface of tomorrow", Institute for Water Quality, Resources, and Waste Management, Vienna University of Technology, Federal Ministry of Agriculture, Forestry, Environment and Water Management, June 8-9, Vienna, Austria, 2006
57. "Corrosion-induced release of zinc from various zinc-based construction materials in a marine environment", - Poster, "Towards the city surface of tomorrow", Institute for Water Quality, Resources, and Waste Management, Vienna University of Technology, Federal Ministry of Agriculture, Forestry, Environment and Water Management, June 8-9, Vienna, Austria, 2006.
58. "Environmental fate of corrosion-induced release of zinc, copper, chromium and nickel from external constructions" "Towards the city surface of tomorrow", Institute for Water Quality, Resources, and Waste Management, Vienna University of Technology, Federal Ministry of Agriculture, Forestry, Environment and Water Management, June 8-9, Vienna, Austria, 2006.
59. "Corrosion-induced metal release from stainless steel and its alloy constituents into different media", Baosteel, BAC, Shanghai, May, 2006.
60. "Long-term corrosion induced copper runoff from natural and artificial patina and its environmental fate in soil" Poster, SETAC Europe, 15th Annual Meeting, 22-26 May, Lille, France, 2005
61. "Environmental impact of copper dispersion from external structures", SETAC Europe 14th Annual Meeting, Prague, Czech Republic, 18-22 April, 2004
62. "Environmental interaction of metals induced by atmospheric corrosion", I. Odnevall Wallinder and C. Leygraf , Proceedings, 13th Scandinavian Corrosion Congress, April 18-24, Iceland, 2004
63. "Release of Cr, Ni and Fe from stainless steel alloys and the pure metals", G. Herting, I. Odnevall Wallinder and C. Leygraf, Proceedings, 13th Scandinavian Corrosion Congress, April 18-24, Iceland, 2004
64. "Environmental aspects of metal runoff", I. Odnevall Wallinder and C. Leygraf , Proceedings, Eurocorr, Budapest, (2003)
65. "A model for predicting copper runoff rates – current activities", UN/ECE Convention on long-range transboundary air pollution, Workshop on Release of heavy metals due to corrosion of materials, Munich Germany, May 12-14, 2003

66. *"Immobilization of copper in runoff water from roofing materials by limestone, soil and concrete"*, UN/ECE Convention on long-range transboundary air pollution, Workshop on Release of heavy metals due to corrosion of materials, Munich Germany, May 12-14, 2003
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