

LIST OF PUBLICATIONS AND INVITED TALKS (1978-2018)
Prof. Ana Proykova, PhD, Doctor of Sciences (Doctor-Habil),
Faculty of Physics (until 2016) & Faculty of Mathematics and Informatics (since
24.10.2016) St. Kliment Ohridski University of Sofia

**I. Published opinions of the SCENIHR (2009-2013) and the SCHEER (2013-2018) –
the scientific committees of the European Commission:**

EC-1) Health effects of security scanners for passenger screening (based on X-ray technology)
(2012)

Anssi Auvinen, Thomas Jung, Ana Proykova, Denis Bard, Richard Paynter, Geraldine O'Reilly,
Christoph Hoeschen, Peter O'Neill

ISSN 1831-4783 ISBN 978-92-79-26316-3 doi:10.2772/87426 ND-AS-12-004-EN-N

EC-2) Health Effects of Artificial Light (2012)

Mats-Olof Mattsson, Thomas Jung, Ana Proykova, Francine Behar-Cohen, Frank de Gruijl,
James Ferguson, Johnni Hansen, Harry Moseley, Georges Zissis

ISSN 1831-4783 ISBN 978-92-79-26314-9 doi:10.2772/8624 ND-AS-12-002-EN-N

EC-3) Scientific Basis for the Definition of the Term “nanomaterial”

Jim Bridges, Kenneth Dawson, Wim de Jong, Thomas Jung, Ana Proykova, Qasim Chaudhry,
Ruth Duncan, Eric Gaffet, Keld Alstrup Jensen, Wolfgang Kreyling, Bernadette Quinn

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ISSN 1831-4783 ISBN 978-92-79-12757-1 doi:10.2772/39703 ND-AS-09-004-EN-N

EC-4) Opinion on the Environmental and Health Risks Posed by Depleted Uranium (2010)

Wolfgang Dekant, Pim De Voogt, Borut Peterlin, Marco Vighi, Pier Roberto Danesi, Victor
Meineke, Ana Proykova

ISSN 1831-4775 ISBN 978-92-79-12754-0 doi:10.2772/3253 ND-AR-09-005-EN-N

EC-5) Nanosilver: safety, health and environmental effects and role in antimicrobial resistance

Philippe Hartemann, Peter Hoet, Ana Proykova, Teresa Fernandes, Anders Baun, Wim De Jong,
Juliane Filser, Arne Hensten, Carsten Kneuer, Jean-Yves Maillard, Hannu Norppa, Martin
Scheringer, Susan Wijnhoven

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ISSN:1831-4783 ISBN: 978-92-79-30132-2 doi: 10.2772/76851 ND-AS-13-002-EN-N

{cited in Silver Nanoparticles in the Environment, edited by Jingfu Liu, Guibin Jiang
Springer 9783662460702, April 2015}

EC-6) Addressing the New Challenges for Risk Assessment (2013) (SCCS, SCHER, SCENIHR)

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ISSN 2315-0106 ISBN 978-92-79-31206-9 doi:10.2772/37863 ND-AZ-13-002-EN-N

EC-7) Opinion on Synthetic Biology I: Definition

Theo Vermeire, Michelle Epstein, Philippe Hartemann, Ana Proykova, Luis Martinez Martinez,
Teresa Fernandes, Qasim Chaudhry, Suresh Chandra Rastogi, Rainer Breitling, Camille
Delebecque, Timothy Gardner, Katia Pauwels, James Philp, Markus Schmidt, Eriko Takano

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ISSN 1831-4783 ISBN 978-92-79-30136-0 doi:10.2772/76553 ND-AS-13-006-EN-N

EC-8) Guidance on the Determination of Potential Health Effects of Nanomaterials Used in Medical Devices, Igor Emri, Philippe Hartemann, Ana Proykova, Konrad Rydzynski, Jim Bridges, Lars Bjursten, Wim De Jong, Robert Geertsma, Arne Hensten, Nils Gjerdet
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ISSN 1831-4783 ISBN 978-92-79-35590-5 doi: 10.2772/41391 ND-AS-14-001-EN-N

EC-9) Position Statement on emerging and newly identified health risks to be drawn to the attention of the European Commission (SCENIHR) (2014)

ISSN 1831-4783 ISBN 978-92-79-55011-9 Doi:10.2875/996348 EW-AS-16-001-EN-N
http://ec.europa.eu/health/scientific_committees/emerging/docs/scenihr_s_002.pdf

EC-10) Opinion on Synthetic Biology II: Risk assessment methodologies and safety aspects
Theo Vermeire, Michelle Epstein, Philippe Hartemann, Ana Proykova, Luis Martinez Martinez, Teresa Fernandes, Qasim Chaudhry, Suresh Chandra Rastogi, Rainer Breitling, Camille Delebecque, Timothy Gardner, Katia Pauwels, James Philp, Markus Schmidt, Eriko Takano
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http://ec.europa.eu/health/scientific_committees/emerging/docs/scenihr_o_048.pdf

EC-11) Opinion on Synthetic Biology III: Risks to the environment and biodiversity related to synthetic biology and research priorities in the field of synthetic biology (64 pages)
3 December 2015 (ISSN 2315-0106; ISBN 978-92-79-54973-1 doi:10.2875/590512 EW-AZ-16-001-EN-N)

Theo Vermeire, Michelle Epstein, Philippe Hartemann, Ana Proykova, Luis Martinez Martinez, Teresa Fernandes, Qasim Chaudhry, Suresh Chandra Rastogi, Rainer Breitling, Camille Delebecque, Timothy Gardner, Katia Pauwels, James Philp, Markus Schmidt, Eriko Takano
https://ec.europa.eu/health/sites/health/files/scientific_committees/emerging/docs/scenihr_o_050.pdf

EC-12) Opinion on Biological effects of UV-C radiation relevant to health with particular reference to UV-C lamps (2 February 2017) Theodoros Samaras, Ana Proykova, Renate Krätke, Rodica Mariana Ion, Pieter Jan Coenraads, Lesley Rushton, Norbert Leitgeb
https://ec.europa.eu/health/sites/health/files/scientific_committees/scheer/docs/scheer_o_002_0.pdf

EC-13) Guidance on the structure and content of SCHEER Opinions and statements (23 February 2017) Ana Proykova, Philippe Hartemann, Emanuela Testai, Theo Vermeire, Renate Krätke, Alena Bartonova, Claire Beausoleil, Teresa Fernandes, Jan Linders, Greta Schoeters
https://ec.europa.eu/health/sites/health/files/scientific_committees/scheer/docs/scheer_o_006.pdf

EC-14) Opinion on Biological effects of ultraviolet radiation relevant to health with particular reference to sunbeds for cosmetic purposes (17 November 2016)
https://ec.europa.eu/health/sites/health/files/scientific_committees/scheer/docs/scheer_o_003.pdf
Ana Proykova, Theodoros Samaras, Rodica Mariana Ion, Pieter Jan Coenraads, Claire Beausoleil, Jean-Francois Doré, Rudiger Greinert, Philippe Hartemann, Norbert Leitgeb, Lesley Rushton, Greet Schoeters

EC-15) Potential risks to human health of Light Emitting Diodes (LEDs) (Preliminary 6 July 2017) (Final 6 June 2018)

Ana Proykova, Theodoros Samaras, Rodica Mariana Ion, Ellen Bruzell, Jean-François Doré, Massimo Nicolò, John O'Hagan, Celia Sánchez-Ramos, Linda van Kerkhof

https://ec.europa.eu/health/sites/health/files/scientific_committees/scheer/docs/scheer_o_011.pdf
DOI: 10.13140/RG.2.2.24119.62885

EC-16) Memorandum on weight of evidence and uncertainties, (26 June 2018) Ana Proykova (Chair), Renate Krätke (Rapporteur), Roberto Bertollini, Teresa Borges, Raquel Duarte-Davidson, Demosthenes Panagiotakos, Rémy Slama, Marian Scott, Emanuela Testai, Theo Vermeire, Marco Vighi, Alena Bartonova, Claire Beausoleil, Teresa Fernandes, Jan Linders, Greta Schoeters, Philippe Hartemann

https://ec.europa.eu/health/sites/health/files/scientific_committees/scheer/docs/scheer_o_014.pdf
DOI: 10.13140/RG.2.2.10697.85604

II. Peer-reviewed publications in English:(1978-2018)

including articles in journals and articles in scientific series

1. A. Proykova, A. Minkova, B. Slavov, Ts. Bonchev, **Bulg. J. Phys.** V (1978),3, p.248-258:" A Monte Carlo Calculation of the Energy and Angular Distribution of 19.6 keV Conversion Electrons in Thin Foils".
2. A. Proykova, **Nucl. Instr. Meth.** v.160 (1979),2,p.321:"*Depth Selection by Means of Scattered Electrons: Monte Carlo Calculation of Energy Distribution*".
3. A. Proykova, **Bulg. J. Phys.** VI(1979),1,p.28:"*Electron Scattering in Thin Foils*"
4. A. Proykova, **J.Phys.D**, v.12 (1979) p.87: "*A Monte Carlo Calculation of the angular distribution of muons in lead*"
5. A. Proykova, **Nucl.Instr.Meth.** v.174(1980),p.327:"*Conversion electron penetration through metallic and oxidized thin layers*"
6. A. Proykova, **J.Phys.D**, v.13, pp.291-305 (1980):"*An analysis of scattering processes of conversion electrons in solid layers*"
7. P. Topalov and A. Proykova, **Nucl.Instr.and Meth. in Phys. Res. A236** (1985), p.142:"*Angular Conversion Electron Mossbauer Spectroscopy(ACEMS) - a method for surface layer study*"
8. A. Proykova, **Nucl. Instr. Meth. A254** (1987),p.611:"*Determination of Detecting System Response Function*"
9. D.L. Balabanski, A. Proykova, P.S. Kamenov, *The Time-dependence of Resonantly Filtered Recoilless Gamma-radiation – an approach to the Numerical Problem*, **NUCL INSTRUM METH B 16:** (4-5) 434-438 JUN 1986
10. A. Proykova, K. Christova, T.Christov,N.Nenov, D.Kolev , Int. Journal Appl. Rad. Isot v.42, No3,pp. 279-283"*Radiation Field from a Large Cylindrical Source*" (1991).
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12. A. Proykova, N.Nankoff and Laszlo Grenacs, *A Model for Initial Ionization and Charge Fluctuations in ^{12}B and ^{16}N Ions Generated in Nuclear Muon Capture*, **Bulg. J. Phys. v.22**, No.1,2 (1995).
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- Grenacs, L., Abela R., Boeni, P., Foroughi, F., Zipper, W., **Proykova, A.**, *Polarimetry of N-16 (g.s.) produced in mu(-) capture on O-16 nuclei*, **Acta Physica Polonica B**, v.28, No.1, p.1659 (1997)
16. A. Proykova and R.S. Berry, *Analogues in Clusters of Second-Order Phase Transitions?*, **Z.Phys. D**, v. 40, p.215 (1997)
17. K. Ball, R.S. Berry, R. Kunz, F.-Y Li, **A. Proykova**, D. Wales, *From Topographies to Dynamics on Multidimensional Potential Energy Surfaces of Atomic Clusters*, **Science**, 271(1996) 963.
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24. Ana Proykova, *How to improve a random number generator*, **Comp. Phys. Comm.** 124 (2000) 125-131.
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 54. Ana Proykova, *Molecular Dynamics simulation of gas adsorption and absorption in Nanotubes*, in Carbon Nanotubes: from Basic Research to Nanotechnology, Springer, Series: [NATO Science Series II: Mathematics, Physics and Chemistry](#), pp.187-207, Vol. 222 eds. Popov, Valentin N.; Lambin, Philippe (Eds.) (2006)
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73. Michelle M. Epstein, Theo Vermeire, P. Hartemann, A. Proykova, L. Martinez Martinez, E. Rodriguez Farré, T. Fernandes, Q. Chaudhry, M. Dusinska, T. Platzek, S.C. Rastogi, J. van Benthem, R. Breitling, J. Bridges, C. Delebecque, T. Gardner, K. Pauwels, J. Philp, M. Schmidt, and E. Takano. Scientific Opinion on Risk Assessment of Synthetic Biology *Trends in Biotechnology*, Volume 34, Issue 8, p601–603, August 2016 SCIENCE & SOCIETY DOI: <http://dx.doi.org/10.1016/j.tibtech.2016.04.013>
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III. Book Chapters

77. A.Proykova, Preface to the Nanometrology Report, 128 p. (2006) DOI: 10.13140/RG.2.1.2375.2404
eds. Witold Łojkowski, Rasit Turan, Ana Proykova, <http://nanoparticles.org/pdf/nanometrology.pdf>
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