Curriculum vitae	
Personal information	
First name(s) / Surname(s)	**Jurgen / Liebscher**
Telephone(s)	(+4)0264-584037
Fax(es)	(+4)0264-420042
Web sites:	http://www.itim.ro
E-mail	liebscher@chemie.hu-berlin.de
Nationality	German
Marital status	married
Date of birth	October 4, 1945
Gender	Male
Present Activity	
Workplace / Occupational field	National Institute for Research and Development of Isotopic and Molecular Technologies (INCDTIM), Cluj-Napoca, ROMANIA chemist, senior researcher - degree I, university professor
Key Words	Organic synthesis, bioorganic chemistry, molecular self-assembling, molecular recognition, nanoparticles, catalysis, polydopamine and analogues
Domains of competence	- Synthesis of organic and bioorganic compounds, bioconjugates and analogues of natural products - Synthesis of functionalized monomers and their transformation into polymers applied as shells in magnetic core-shell nanoparticles - functionalized magnetic core-shell nanoparticles - polydopamine and analogues - catalysis - asymmetric synthesis - ionic liquids - molecular recognition - chemistry of organic hydroperoxides and peroxides

Domains of interest	- Organic synthesis - Heterocyclic Chemistry - Polydopamine and analogues - Conjugates of biological materials - Functionalized magnetic core-shell nanoparticles - Molecular recognition and self-assembling processes
Education and training	
	Dr. habil. in organic chemistry, 1977, Technical University Dresden, Germany PhD in organic chemistry, 1973, Technical University Dresden, Germany Diplom – MSc 1969, Technical University Dresden
Work experience	
Dates / Occupation or last position held/ Name of employer	**Since 2010** / Senior Researcher/ Director of European POS project National Institute for Research and Development of Isotopic and Molecular Technologies, Cluj-Napoca, Romania **1981 – 2011**/ University Professor of Organic and Bioorganic Chemistry, Humboldt-University Berlin, Germany **2009 - 2015** / Assoc. Professor / Babes Bolyai University, Faculty of Chemistry and Chemical Engineering **1979 – 1981**/ Assoc. Professor of Organic Chemistry, Department of Chemistry, Addis Ababa University, Addis Ababa, Ethiopia
Professional affiliations	
Coordinated research projects (selection – last years)	• **POS CCE – AXA II, id nr. 550** "Advanced Methods for the synthesis of hybride materials" 1 530 000 EURO, 2010 – 2013 (Project Director) • **BMBF-Project Nanobiotechnology, Germany** "Intelligent nucleic acid-nanomaterials" 440 000 EURO, 2007-2010 (Project Director) • **BMBF-Project Nanobiotechnology, Germany** "Lipophilic nucleic acid building blocks for functionalisation and nanostructuring of biomimetic structures" 310 000 EURO, 2004-2007 (Project Director) • **BMBF-Project Innovative methods in chemical industries, Germany** "Novel ionic liquids as innovative *reaction media*" 100 000 EURO, 2005-2008 (Project Director) • **Research Project with Bayer Technology Services, Leverkusen, Germany** "Amphiphilic lipids for targeted triggered drug delivery, 182 000 EURO, 2006-2010 (Project Director) • **DFG-Project, Priority program Ionic Liquids** "Triazolium-Tagged Organocatalysts", 68 000 EURO, 2009 – 2011 (Project Director) • **DFG-Project** "Geminal dihydroperoxides as oxygen-transfer reagents", 75 000 EURO, 2007 – 2010 (Project Director)

Book chapter	Z, Yacob, **J. Liebscher**: ”1,2,3-Triazolium Salts as a Versatile New Class of Ionic Liquids”in *Ionic Liquids – Classes and Properties*, InTech, **2011** part 1, chapter 1 (editor S. T. Handy), p. 3 – 22, ISBN 978-953-307-634-8. Nan, **J. Liebscher**: "Ionic Liquids as Advantageous Solvents for Preparation of Nanostructures” in *Applications of Ionic Liquids in Science and Technology,* InTech, **2011**, part 4, chapter 14 (editor S. T. Handy), p. 287 – 308, ISBN 978-953-307-605-8 M. Pätzel, S. Pritz, **J. Liebscher**: “α-Heteroatom-Substituted Alkanamides“ in *Science of Synthesis*, Georg Thieme Verlag Stuttgart, **2005,** Vol. 21 (Volume editor: S. Weinreb), p. 447 – 535. H. J. Hamann, E. Höft, **J. Liebscher**: "Preparation of Optically Active Hydroperoxides and their Use for Stereoselective Oxygen Transfer" in *Peroxide Chemistry, Mechanistic and Preparative Aspects of Oxygen Transfer, DFG* (Ed. W. Adam), Wiley-VCH **2000**, p. 381 - 405. V. G. Granik, A. V. Kadushkin, **J. Liebscher**:“Synthesis of Amino Derivatives of Five Membered Heterocycles by Thorpe-Ziegler Cyclisation“ in *Advances in Heterocyclic Chemistry*, ed. A, Katritzky, **1998**, *72*, p. 79-125 M. Bohle, **J. Liebscher**:"Ring Contraction of Heterocycles by Sulfur Extrusion" in *Advances in Heterocyclic Chemistry*, ed. A. R. Katritzky, Academic Press, **1996**, *65*, p. 39 – 92 **J. Liebscher**: "1,3-Thiazole" in *Houben-Weyl, Methoden der Organischen Chemie*, Thieme Verlag, Stuttgart, **1994** vol. *E8b*, partl 2, p. 1 - 399,

Scientific papers in peer-reviewed journals (selection – last years)	**Liebscher, J.** (2019). “Chemistry of Polydopamine – Scope, Variation, and Limitation.” Eur. J. Org. Chem. 4976 – 4994 (Very important paper) DOI: 10.1002/ejoc.201900445 A. Petran, A. Pop, N. D. Hadade, **J. Liebscher** (2020) “New insights into catechol oxidation – application of ammonium peroxydisulfate in the presence of arylhydrazines” ChemistrySelect **5**, 9523 – 9530 DOI:10.1002/slct.202002370 Kurz, A., A. Bunge, A. K. Windeck, M. Rost, W. Flasche, A. Arbuzova, D. Strohbach, S. Mueller, **J. Liebscher**, D. Huster, A. Herrmann (2006). "Lipid-anchored oligonucleotides for stable double-helix formation in distinct membrane domains." Angewandte Chemie-International Edition **45**(27): 4440-4444. DOI 10.1002/anie.200600822 Loew, M., R. Springer, S. Scolari, F. Altenbrunn, O. Seitz, **J. Liebscher**, D. Huster, A. Herrmann, A. Arbuzova (2010). "Lipid Domain Specific Recruitment of Lipophilic Nucleic Acids: A Key for Switchable Functionalization of Membranes." Journal of the American Chemical Society **132**(45): 16066-16072. Doi 10.1021/Ja105714r J. Liebscher, R. Mrowczynski, H. A. Scheidt, C. Filip, N. Hadade, A. Bende, R. Turcu, S. Beck (2013) “The Structure of Polydopamine – A Never Ending Story? Langmuir **29** (33), 10539-10548. DOI 10.1021/la4020288 R. Mrowczynski, A. Nan, **J. Liebscher** (2014) „Magnetic nanoparticle-supported organocatalysts an efficient way of recycling and reuse” RSC Advances, **4**, 5927-5952 R. Mrowczynski, R. Markiewicz, **J. Liebscher** (2016) “Chemistry of polydopamine analogues” Polym. Int. **65**, 1288-1299. DOI 10.1002/pi.5193 M. Circu, A. Nan, G. Borodi. **J. Liebscher**, R. Turcu (2016) “Refinement of magnetic nanoparticles by coating with organic stabilizers” Nanmaterials **6**, 228 (12 pages). DOI 10.3390/nano6120228 A. Bunge, L. Magerusan, I. Morjan, R. Turcu, G. Borodi, **J. Liebscher** (2015) “Diazonium salt-mediated synthesis of new amino, hydroxy, propargyl, and maleinimido-containing superparamagnetic Fe@C nanoparicles as platforms for linking bio-entities or organocatalytic moieties”J. Nanopart. Res. 17:379 Nan, A., R. Turcu, I. Craciunescu, O. Pana, H. Scharf, **J. Liebscher** (2009). "Microwave-Assisted Graft Polymerization of epsilon-Caprolactone onto Magnetite." J. Polym. Sci. Part A – Polym. Chem. **47**(20): 5397-5404. DOI 10.1002/Pola.23589 Karsten, S., M. A. Ameen, S. I. Kallane, A. Nan, R. Turcu, J. **Liebscher** (2010). "A Versatile Method of Tethering Biomolecules to Pyrrole Precursors for Functionalized Magnetic Polypyrrole Core-Shell Nanoparticles." Synthesis-Stuttgart(17): 3021-3028. DOI 10.1055/s-0029-1218846 Pescador, P., N. Brodersen, H. A. Scheidt, M. Loew, G. Holland, N. Bannert, **J. Liebscher**, A. Herrmann, D. Huster, A. Arbuzova (2010). "Microtubes self-assembled from a cholesterol-modified nucleoside." Chem. Comm. **46**(29): 5358-5360. Doi 10.1039/C0cc00562b Goldenbogen, B., N. Brodersen, A. Gramatica, M. Loew, **J. Liebscher**, A. Herrmann, H. Egger, B. Budde, A. Arbuzova (2011). "Reduction-Sensitive Liposomes from a Multifunctional Lipid Conjugate and Natural Phospholipids: Reduction and Release Kinetics and Cellular Uptake." Langmuir **27**(17): 10820-10829. Doi 10.1021/La201160y

International Scientific Meetings **(selection – last years)**	**J. Liebscher**, O. Kaczmarek,m N. Brodersen, A. Bunge, L. Löser, A. Kurtz, A. Arbuzova, M. Loew, D. Huster, A. Herrmann: *"Nucleolipids - Synthesis, Supramolecular Behaviour and Phospholipid-Membrane Interactions"*, 9. Florida Heterocyclic and Synthetic Conference (Flohet 9), Gainesville, USA, 2008. **J. Liebscher**: "Funktionalisierte Nanomaterialien auf der Basis von lipophilen Nucleinsäuren", 3. BMBF-Symposium Nanotechnologie, Hannover, 2007 H.-J. Hamann, T. D. Greco, A. Wlosnewski, R. Uebel, **J. Liebscher**: *Novel Cyclic Peroxides by Hydroperoxides-Rearrangement and Ozonolysis,* ORCHEM 2006, Bad Nauheim. **J. Liebscher:** *Novel Cyclic Peroxides and Hydroperoxides as Potential Antimalaria Compounds*, KCS 5th International Conference, Nairobi, 2005. A. Kurz, M. Rost, W. Flasche, O. Kaczmarek, A. Bunge, **J. Liebscher,** D. Huster, A. Herrmann: "*Ordering and functionalization of lipid membranes by lipophilic nucleosides",* NanoBio Europe, Münster 2005. J. Shah, S. Sadiq Khan, Z. Yacob, **J. Liebscher: "***Ionic Liquid-Tagging in Organocatalysis",* ISO 2010, Mühlheim 2010 J. Shah, Z. Yacob, S. Hanelt, S. S. Khan, H. Blumenthal, **J. Liebscher:** "Ionic Liquids as Innovative Reaction Media" .30th National Chemistry Conference, Calimanesti, Romania, 2008 J. Liebscher "Polydopamine – Famous but Structurally Challenging", 18th Asian Chemical Congress, Taipei ,Taiwan, 2019

Mother tongue(s)	German			
Other language(s)	Self-assessment	**Understanding**	**Speaking**	**Writing**
Language	English	Very good	Very good	Very good
Language	Romanian	Beginner	Beginner	Beginner

Additional information	**Additional information**	More than 280 published papers; 7 book chapters; about 170 patents, many presentations at conferences and workshops. Member of editorial boards of the journals Journal of Heterocyclic Chemistry, Bulletin Chemical Society Ethiopia, Studia Universitatis Babes-Bolyai, Seria Chemia. Referee for various journals: Angewandte Chemie, Chemistry a European Journal, European Journal of Organic Chemistry, Tetrahedron, Tetrahedron Letters, Advanced Synthesis and Catalysis, Journal of Organic Chemistry...

Date: October 14 2021