

Curriculum vitae

Dr. sc. Srećko I. Kirin

Division of Materials Chemistry, Ruđer Bošković Institute (RBI), Bijenička c. 54, HR-10000 Zagreb, Croatia
Phone: +385-1-4571367; Web: irb.hr/eng/People/Srecko-Kirin, www.researchgate.net/profile/Srecko_Kirin
Bibliography: <http://orcid.org/0000-0002-0500-2422>, https://scholar.google.hr/citations?user=Kf_-d94AAAAJ,
www.webofscience.com/wos/author/record/1315617, <http://bib.irb.hr/lista-radova?autor=192540&lang=EN>

Education

- 03.1995 – 05.1998 Doctor of Science (Dr. sc.) in Chemistry, University of Zagreb, Croatia
01.1992 – 12.1994 Master of Science (M. sc.) in Organic chemistry, University of Zagreb, Croatia
10.1987 – 12.1991 Diploma (B. sc.) in Chemistry, University of Zagreb, Croatia

Work experience

- 09.2022 – today **Senior Scientist**, Bioinorganic chemistry and catalysis, RBI, Zagreb
02.2021 – today **Adjunct Assistant Professor**, Medicinal Chemistry, J. J. Strossmayer University, Osijek
03.2016 – today **Head**, Laboratory for solid state and complex compounds chemistry, RBI, Zagreb
03.2017 – 09.2022 **Senior Research Associate**, Bioinorganic chemistry and catalysis, RBI, Zagreb
09.2008 – 03.2017 **Research Associate**, Bioinorganic chemistry and catalysis, RBI, Zagreb
02.2008 – 09.2008 **Senior Assistant**, Magnetic materials, RBI, Zagreb
04.2006 – 12.2007 **Postdoctoral Assistant**, Bioinorganic materials, Pennsylvania State University, USA
09.2001 – 03.2006 **Postdoctoral Assistant**, Bioinorganic chemistry, University Heidelberg, Germany
04.1995 – 09.2001 **Senior Assistant (since 08.1998 Assistant)**, Organometallic chemistry, RBI, Zagreb
04.1993 – 03.1995 **Junior Assistant**, Homogeneous catalysis, RBI, Zagreb
01.1992 – 03.1993 **Researcher**, Pharmaceutical industry, Research institute PLIVA, Zagreb

Scientific projects

Research projects (peer reviewed, principle investigator).

- 12.2019 – 04.2023 **Innovative solutions of catalytic production processes for pharmaceutical industry (CAT Pharma)**, Investment in Science and Innovation program (KK.01.1.1.04.0013), European Regional Development Fund; 830.000 € (coordinator)
06.2015 – 09.2019 **Minimal artificial enzymes**, Croatian Science Foundation (CSF), IP-2014-09-1461 Research project program, 103.500 €
01.2010 – 10.2011 **Metallated bioconjugates for applications in biological and material sciences** Homing grant program (02.04/23), Croatian Science Foundation (CSF), 100.000 €
02.2009 – 01.2011 **Organometallic and inorganic bioconjugates as potential enantioselective catalysis** Homeward grant program (36/08), Unity through knowledge fund (UKF), 260.000 €

Student scholarships (peer reviewed, mentor).

- 11.2021 – 10.2024 **CAT Pharma**, Croatian Science Foundation (CSF), DOK-2021-02-7366 Career development program, doctoral scholarship to M. Bakija
11.2016 – 04.2021 **Minimal artificial enzymes**, Croatian Science Foundation (CSF), DOK-2015-10-2072 Career development program, doctoral scholarship to S. Opačak
11.2014 – 10.2015 **Bioinspired asymmetric catalysis**, NewFelPro scholarship 38/14 Marie Curie FP7-People-2011-Cofund; postdoc scholarship to dr. M. Kumar

International collaborations (bilateral or multilateral, travel grants only).

- 01.2021 – 12.2022 **Catalytic and biological properties of metal-containing peptide conjugates**, Croatian-French bilateral grant program (COGITO), Co-PI: G. Gasser (Paris Sciences et Lettres)
01.2021 – 12.2022 **Enantioselective catalysis with transition metal complexes of new conjugates of phosphines, oxazolines and amino acids as ligands**, Croatian-German bilateral grant program (MZO - DAAD), Co-PI: S. Tin (Leibniz Institute for Catalysis, Rostock)

- 05.2019 – 06.2022 **Minimal artificial enzymes: secondary structures of stereoselective catalyst**
Croatian-Serbian bilateral grant program, Co-PI: S. Veličković (Institute Vinča)
- 10.2018 – 04.2023 **Chemobrionics**, COST Action CA17120
Management committee member (Croatian representative)
- 01.2018 – 12.2019 **A facile route to chiral catalysts using bioorthogonal "click" reactions on (organo)metal scaffolds**, Croatian-German bilateral grant program (MZO - DAAD),
Co-PI: U. Schatzschneider (Würzburg)
- 11.2014 – 11.2018 **From molecules to crystals - how do organic molecules form crystals? (Crystallize)**
COST Action CM1402, Management Committee member (Croatian representative)
- 01.2014 – 06.2016 **Metalloocene peptides as probes for Alzheimer disease drug screening**
Croatian-Chinese bilateral grant program; Co-PI: Y.-N. Liu (Changsha)
- 01.2014 – 12.2015 **Catalytic and biological properties of metal complexes with nitrogen ligands**
Croatian-Slovenian bilateral grant program; Co-PI: I. Turel (Ljubljana)
- 05.2012 – 04.2016 **Functional metal complexes that bind to biomolecules**
COST Action CM1105; Management Committee member (Croatian representative)
- 01.2010 – 12.2011 **Synthesis and characterization of multi-metallic bioconjugates**, Croatian-German
bilateral grant program (MZOŠ - DAAD), Co-PI: N. Metzler-Nolte (Bochum)

Basic scientometric data

56 scientific papers, incl. 38 paper as lead author (first or corresponding), 2 patents, 1 book chapter (Wiley)
21 papers in top journals (Q1, upper 25% in WoS), incl. 14 papers in journals with IF₂₀₂₁ > 5.0
42 papers in above average journals (Q1 + Q2, upper 50% in WoS)
Citations: >1280 (WoS or Scopus), additionally > 200 citations in books or patents; **h-index:** 18 (WoS / Scopus)
178 presentations (37 public lectures; at conferences: 7 invited lectures, 34 oral and 100 poster presentations)

Selected publications (mentored students are underlined>

10. N. Pantalon Juraj, **S. I. Kirin***: *Coord. Chem. Rev.* **2021**, 445, 214051. Doi: 10.1016/j.ccr.2021.214051; [IF₂₀₂₁ = 24.8].
09. S. Opačak, B. Perić, D. Babić, Ž. Marinić, V. Smrečki, B. Pem, I. Vinković Vrček, **S. I. Kirin***: *Dalton Trans.* **2021**, 50, 4504-4511. Doi: 10.1039/d1dt00508a; [IF₂₀₂₁ = 4.6]. **Front cover**, doi: 10.1039/d1dt90052h.
08. N. Pantalon Juraj, G. I. Miletić, B. Perić, Z. Popović, N. Smrečki, R. Vianello, **S. I. Kirin***: *Inorg. Chem.* **2019**, 58, 16445-16457. Doi: 10.1021/acs.inorgchem.9b02200; [IF₂₀₂₁ = 5.4].
07. M. Pernar,[#] Z. Kokan,[#] J. Kralj, Z. Glasovac, L.-M. Tumir, I. Piantanida, D. Eljuga, I. Turel, A. Brozovic,^{*} **S. I. Kirin***: *Bioorg. Chem.* **2019**, 87, 432-446. Doi: 10.1016/j.bioorg.2019.03.048; [IF₂₀₂₁ = 5.3].
06. Z. Kokan,^{*} B. Kovačević, Z. Štefanić, P. Tzvetkova, **S. I. Kirin***: *Chem. Commun.* **2018**, 54, 2094-2097. Doi: 10.1039/c7cc09537f; [IF₂₀₂₁ = 6.1]. **Back cover**, doi: 10.1039/C8CC90088D
05. Z. Kokan,^{*} B. Perić, M. Vazdar, Ž. Marinić, D. Vikić-Topić, E. Meštrović, **S. I. Kirin***: *Chem. Commun.* **2017**, 53, 1945-1948. Doi: 10.1039/c6cc09203a; [IF₂₀₂₁ = 6.1]. **Back cover**, doi: 10.1039/c7cc90054f.
04. Đ. Škalamera, E. Sanders, R. Vianello, A. Maršavelski, A. Pevec, I. Turel, **S. I. Kirin***: *Dalton Trans.* **2016**, 45, 2845-2858. Doi: 10.1039/c5dt03387j; [Q1, IF₂₀₂₁ = 4.6]. **Back cover**, doi: 10.1039/c6dt90035f.
03. **S. I. Kirin**, I. Ott, R. Gust, W. Mier, T. Weyhermüller, N. Metzler-Nolte*: *Angew. Chem. Int. Ed.* **2008**, 47, 955-959. Doi: 10.1002/anie.200703994; [IF₂₀₂₁ = 16.8]
02. S. Pfander, R. Fiammengo, **S. I. Kirin**, N. Metzler-Nolte,^{*} A. Jäschke*: *Nucleic Acids Res.* **2007**, 35, e25/1-e25/8. Doi: 10.1093/nar/gkl1110; [IF₂₀₂₁ = 19.2].
01. **S. I. Kirin**, H.-B. Kraatz,^{*} N. Metzler-Nolte*: *Chem. Soc. Rev.* **2006**, 35, 348-354. Doi: 10.1039/b511332f; [IF₂₀₂₁ = 60.6]. **Front cover**, doi: 10.1039/b603403a.

Mentorship

Current group members (independent work).

08.2021 – today	Dr. sc. Zoran Kokan , research associate
01.2020 – today	Marija Bakija , doctoral student (CSF scholarship)
01.2013 – today	Dr. sc. Berislav Perić , senior research associate
09.2010 – today	Ernest Sanders , research technician

Former group members (independent work).

10.2022 – 10.2022	Soumyadeep Chakraborty , visiting doctoral student (LIKAT, Germany)
10.2022 – 10.2022	Lisa Gourdon , visiting doctoral student (PSL Uni., France)
04.2022 – 07.2022	Emilie Marechal , ERASMUS student (ENSICAEN, France)
09.2021 – 02.2023	Aleks Logožar , defended undergrad. thesis (Uni. Zagreb)
04.2021 – 08.2021	Hugo Tetu , ERASMUS student (ENSICAEN, France)
08.2020 – 04.2023	Silvio Jakopec (Uni. Zagreb), defended doctoral thesis, co-mentor: S. Raić-Malić
02.2020 – 12.2022	Romana Dolović , administrator (EU structural project)
03.2019 – 06.2021	Tomislav Gojšić , defended undergrad. thesis (Uni. Zagreb)
11.2019 – 07.2020	Silvio Jakopec , defended undergrad. thesis (Uni. Zagreb), co-mentor: S. Raić-Malić
09.2019 – 11.2019	Dominik Moreth , undergraduate student (Uni. Würzburg, Germany)
08.2019 – 08.2018	Franka Folo , undergrad. student (KTF, Uni. Split)
05.2019 – 08.2018	Corentin Landais , ERASMUS student (ENSICAEN, France)
10.2018 – 06.2019	Marko Krklec , defended undergrad. thesis (Uni. Zagreb), co-mentor: S. Raić-Malić
09.2018 – 09.2018	Dominic Graf , visiting doctoral student, Uni. Würzburg, Germany
11.2017 – 07.2018	Tiana Benko , defended undergrad. thesis (Uni. Zagreb), co-mentor: S. Raić-Malić
04.2017 – 08.2017	Jeremy Le Pennec , ERASMUS student (ENSICAEN, France)
12.2016 – 06.2022	Dr. sc. Natalija Pantalon Juraj , doctoral student (RBI), defended doctoral thesis 07.2021
10.2016 – 12.2022	Dr. sc. Saša Opačak , (post)doc. student (CSF, EU project), defended doct. thesis 09.2020
11.2014 – 12.2015	Dr. Manish Kumar , postdoctoral student (Marie Curie FP7)
10.2013 – 02.2015	Tamara Miljuš , undergraduate student (Uni. Zagreb)
09.2013 – 02.2014	Kristina Kučanda , undergraduate student (Uni. Zagreb)
09.2011 – 05.2013	Mladen Borovina , undergraduate student (Uni. Zagreb), received Rector's award
04.2011 – 04.2011	Lukasz Raszeja , visiting doctoral student (Ruhr Uni. Bochum, Germany)
07.2010 – 01.2011	Đani Škalamera , professional associate (UKF)
03.2010 – 01.2011	Dr. sc. Goran Kovačević , postdoctoral student (UKF)
02.2010 – 07.2010	Ivana Borilović , undergraduate student (Uni. Zagreb)
02.2009 – 08.2017	Dr. sc. Zoran Kokan , (post)doc. student (UKF, MZO), defended doctoral thesis 06.2014

Teaching activity

2021 – today	Medicinal Chemistry (Lectures, in German), Josip Juraj Strossmayer University Osijek majors in human medicine (2 × 15 hrs)
2017 – today	Selected Chapters of Chemistry (Guest Lecture) Faculty of Science, University of Zagreb majors in chemistry, topic: "Life at the other side of the mirror" (5 × 3 hrs)
2008 – 2012	Inorganic Chemistry (Lab), Faculty of Science, University of Zagreb majors in chemistry (4 × 60 hrs)
2003 – 2005	Chemistry of Biopolymers (Lab & Seminar), University of Heidelberg, Germany Introduction of the course for the new molecular biotechnology program (2 × 60 hrs)
2002 – 2005	Inorganic Chemistry (Lab & Seminar), University of Heidelberg, Germany Introduction of the course for the new molecular biotechnology program (3 × 76 hrs)
2001 – 2003	General Chemistry (Seminar), University of Heidelberg, Germany Introduction of the course for the new molecular biotechnology program (2 × 14 hrs)
2001 – 2002	Organic Chemistry (Lab), University of Heidelberg, Germany Introduction of the course for the new molecular biotechnology program (70 hrs)
2001 – 2005	Introduction to Experimental Chemistry (Lab), University of Heidelberg, Germany

2001 – 2005	Introduction of the course for the new molecular biotechnology program (4 × 10 hrs) Qualitative Inorganic Analysis (Lab and Seminar), University of Heidelberg, Germany majors in pharmacy (Lab: 2 × 208 hrs, 2 × 168 hrs; Seminar: 3 × 12 hrs)
1990 – 1991	Organic Chemistry (Lab), Faculty of Science, University of Zagreb majors in chemistry (1 × 60 hours) or biology (2 × 30 hrs)

Awards and recognition

- 2021, 2019, 2018, 2017 Annual award** for high quality publications, Ruđer Bošković Institute
2014, 2013 Competitiveness Award, Ruđer Bošković Institute
2010 Director's Award for exceptional scientific success, Ruđer Bošković Institute
2000 Swiss National Science Foundation Scholarship, for 35th Conference on Stereochemistry, Switzerland
1999 Eugene Corey Memorial Fund Scholarship, for 12th Int. Symp. Organosilicon Chemistry, Sendai, Japan
1997 Scholarship, for International School on Organometallic Chemistry, Camerino, Italy
1997 DAAD graduate research scholarship, University GH Essen, Germany; 3 months
1997 GDCh Scholarship, for 9th IUPAC Symposium on Organomet. Chemistry (OMCOS), Göttingen, Germany
1996 Scholarship, for 5th Postgraduate Winter School on Organic Reactivity, Bressanone, Italy
1993 Diploma, Croatian Chamber of Economy, for "special accomplishments in promoting Croatian economy"
1993 Golden medal, 42nd World Exhibition of Invention EUREKA, Brussels, Belgium
1993 Grand prix, 2nd Croatian Exhibition of Invention, Zagreb, Croatia
1991 ÖAD undergraduate research scholarship, University Graz, Austria; 1 month

Scientific visits to foreign institutions

- 2022 Chimie Paristech**, PSL University, Paris, France; with: Gilles Gasser (1 week)
2019, 2023 Leibniz Institute for Catalysis, Rostock, Germany; with Armin Börner, Eszter Barath (Σ 2 weeks)
2019 University of Naples Federico II, Italy; with Roberto Centore (1 day)
2018 Julius-Maximilians-Universität Würzburg, Germany; with Ulrich Schatzschneider (1 week)
2016, 2017 Karlsruhe Institute of Technology, Germany; with Burkhard Luy (Σ 2 weeks)
2015 Saint-Gobain (CNRS), Courthézon, France; with Helena Kaper (1 week)
2014 Central South University Changsha, China; with You-Nian Liu (1 week)
2014 University of Ljubljana, Slovenia; with Iztok Turel (1 day)
2010 University of Western Ontario, Canada; with Heinz-Bernhard Kraatz (10 days)
2007, 2010, 2011 Ruhr University Bochum, Germany; with Nils Metzler-Nolte (Σ 6 weeks)
2003 Medical School Hannover, Germany; with Christoph Klein (1 week)
2002 Universitätsklinikum Heidelberg, Germany; with Walter Mier (1 month)
1996, 1997 University GH Essen, Germany, with Paul Rademacher (Σ 4 months, incl. **DAAD** scholarship)
1994 University Hannover, Germany; with Helmut Duddeck (1 month)
1991 Karl-Franzens University Graz, Austria; with Thomas Kappe (1 month, **ÖAD** scholarship)

Professional activity, selected

Committees / councils, selected

03.2019 – today **Evaluation panel** (IP/UIP-2020-02 and PZS-2019-02), Croatian Science Foundation

Research proposal reviews (Σ 11 proposals)

Hungarian Scientific Research Fund (OTKA); National Science Centre (NCN), Poland; Slovenian Research Agency (ARRS)

Journal paper reviews (> 140 manuscripts, alphabetical order, selected)

Bioorganic Chemistry, Chemical Communications, Dalton Transactions, Inorganic Chemistry, The Journal of Organic Chemistry, for verified reviews see <https://publons.com/author/1435482/>

Journal editorial board membership, selected

11.2018. – today **Journal of Chemistry** (ISSN: 2090-9063, IF₂₀₂₁ = 3.2), inorganic chemistry section