

Ruđer Bošković Institute (RBI)  
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<b>EDUCATION</b>	University of Zagreb, Faculty of Science, Department of Geology, PhD in Geosciences, Oceanology	<b>2003-2014</b>
	University of Zagreb, Faculty of Science, Department of Geology BSc in Geology	<b>1997-2002</b>
<b>WORK EXPERIENCE</b>	Ruđer Bošković Institute, Division for Marine and Environmental Research	<b>2003-</b>
	Research assistant in Laboratory for inorganic environmental geochemistry	<b>2003 – 2014</b>
	Senior research assistant in Laboratory for inorganic environmental geochemistry and chemodynamics of nanoparticles	<b>2014 -</b>
<b>SCIENTIFIC ELECTION</b>	Research associate in the scientific field of natural sciences, interdisciplinary sciences	<b>2014 -</b>
<b>SCIENTIFIC TRAINING</b>	Postdoc training University of Ljubljana, Faculty of Natural Sciences, Department of mineralogy, petrology and materials	<b>2015-2016 (12 months)</b>
	Institute of Mineralogy and Geochemistry, University of Lausanne Lausanne, Switzerland	<b>2002 (6 months )</b>
<b>AWARDS</b>	L'Oreal / UNESCO For Women in Science in 2013  The award of Division for Marine and Environmental Research, Ruđer Bošković Institute for scientific achievement in 2013	
<b>PARTICIPATION IN TEACHING</b>	The course "Gemology" - undergraduate study in Geology Department of Geology, Faculty of Science (2014/2015, 2015/2016)  The course "Gemology" - graduate study in Geology and Environmental Geology Department of Geology, Faculty of Science (2014/2015, 2015/2016)  The course "Soil Geochemistry" - graduate study in Geo-engineering and Environmental Engineering, Faculty of Geotechnical Engineering, Varaždin (2015/2016; 2016/2017)  The course "Geoenvironment" - graduate study in Geology University of Ljubljana, Faculty of Natural Sciences, Department of mineralogy, petrology and materials (2014/2015, 2015/2016) - guest lecturer	

**MEMBERSHIPS** Member of Geochemical Board of the Croatian Academy of Sciences and Arts  
Member of the International Advisory Board ISEB (International Society for Environmental Biogeochemistry)

**REVIEWER** Food Chemistry  
**ACTIVITIES** Journal of Geochemical Exploration  
Journal of Food and Nutrition Research  
The Open Fuels & Energy Science Journal  
Environmental Earth Sciences  
Chemical Industry & Chemical Engineering Quarterly  
The Mining-Geological-Petroleum Engineering Bulletin  
Chemistry in Industry  
CATENA  
International Journal of Environmental Research

## **PUBLICATIONS**

### ***Scientific papers in Journals cited by WOS:***

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1. **Fiket, Željka;** Medunić, Gordana; Furdek Turk, Martina; Ivanić, Maja; Kniewald, Goran.  
Influence of soil characteristics on rare earth fingerprints in mosses and mushrooms: example of a pristine temperate rainforest (Slavonia, Croatia). *Chemosphere*. 179 (2017); 92-100
2. **Fiket, Željka;** Mikac, Nevenka; Kniewald, Goran.  
Mass Fractions of Forty-Six Major and Trace Elements, Including Rare Earth Elements, in Sediment and Soil Reference Materials Used in Environmental Studies. *Geostandards and geoanalytical research*. 41 (2017), 1; 123-135.
3. **Fiket, Željka;** Mikac, Nevenka; Kniewald, Goran.  
Sedimentary records of the Zrmanja River Estuary, eastern Adriatic coast – natural vs. anthropogenic impacts. *Journal of soils and sediments*. (2016); 1-12. doi: 10.1007/s11368-016-1504-4
4. Medunić, Gordana; Ahel, Marijan; Božičević Mihalić, Iva; Gaurina Srček, Višnja; Kopjar, Nevenka; **Fiket, Željka;** Bituh, Tomislav; Mikac, Iva.  
Toxic airborne S, PAH, and trace element legacy of the superhighorganic- sulphur Raša coal combustion: cytotoxicity and genotoxicity assessment of soil and ash. *Science of the Total Environment*. 566–567 (2016); 306-319.
5. **Fiket, Željka;** Medunić, Gordana; Kniewald, Goran.  
Rare earth element distribution in soil nearby thermal power plant. *Environmental Earth Sciences*. 75 (2016), 7; 1-9.
6. Bermanec, Vladimir; Vidaković-Cifrek, **Željka;** **Fiket, Željka;** Tkalec, Mirta; Kampić, Štefica;

Kniewald, Goran.

Influence of digested wastewater sludge on early growth of the perennial ryegrass (*Lolium perenne* L.). *Environmental Earth Sciences*. 75 (2016), 1; 1-12.

7. Babić, Sanja; Dragun, Zrinka; Sauerborn Klobučar, Roberta; Ivanković, Dušica; Bačić, Niko; **Fiket, Željka**; Barišić, Josip; Krasnići, Nesrete; Strunjak-Perović, Ivančica; Topić Popović, Natalija; Čož-Rakovac, Rozelindra.

Indication of metal homeostasis disturbance in earthworm *Eisenia fetida* after exposure to semi-solid depot sludge. *Science of the total environment*. 526 (2015); 127-135.

8. **Fiket, Željka**; Rožmarić, Martina; Krmpotić, Matea; Benedik, Ljudmila.

Levels of major and trace elements, including rare earth elements, and <sup>238</sup>U in Croatian tap waters. *Environmental science and pollution research*. 22 (2015), 9; 6789-6799.

9. Mlakar, Marina; **Fiket, Željka**; Geček, Sunčana; Cukrov, Neven; Cuculić, Vlado.

Marine lake as in situ laboratory for studies of organic matter influence on speciation and distribution of trace metals. *Continental shelf research*. 103 (2015); 1-11.

10. **Fiket, Željka**; Rožmarić, Martina; Krmpotić, Matea; Petrincec, Branko.

Trace and rare earth element geochemistry of Croatian thermal waters. *International Journal of Environmental Research*. 9 (2015), 2; 595-604.

11. Dautović, Jelena; **Fiket, Željka**; Barešić, Jadranka; Ahel, Marijan; Mikac, Nevenka.

Sources, distribution and behavior of major and trace elements in a complex karst lake System. *Aquatic Geochemistry*. 20 (2014); 19-38.

12. Cukrov, Neven; Cuculić, Vlado; Barišić, Delko; Lojen, Sonja; Lovrenčić Mikelić, Ivanka; Oreščanin, Višnja; Vdović, Neda; **Fiket, Željka**; Čermelj, Branko; Mlakar, Marina.

Elemental and isotopic records in recent fluvio-lacustrine sediments in karstic river Krka, Croatia. *Journal of Geochemical Exploration*. 134 (2013); 51-60.

13. Kružlicova, Daša; **Fiket, Željka**; Kniewald, Goran.

Classification of Croatian wine varieties using multivariate analysis of data obtained by high resolution ICP-MS analysis. *Food Research International*. 54 (2013); 621-626.

14. Brozović, Anamaria; Vuković, Lidija; Stupin Polančac, Darija; Arany, Istvan; Köberle, Beate; Fritz, Gerhard; **Fiket, Željka**; Majhen, Dragomira; Ambriović-Ristov, Andreja; Osmak, Maja.

Endoplasmic reticulum stress is involved in response of human laryngeal carcinoma cells to carboplatin but is absent in carboplatin resistant cells. *PLoS One*. 8 (2013), 9; e76397.

15. Dragun, Zrinka; **Fiket, Željka**; Vuković, Marijana; Raspor, Biserka.

Multielement analysis in the fish hepatic cytosol as a screening tool in the monitoring of natural waters. *Environmental Monitoring and Assessment*. 185 (2013), 3; 2603-2614.

16. **Fiket, Željka**; Mikac, Nevenka; Kniewald, Goran.

Arsenic and other trace elements in wines of eastern Croatia. *Food Chemistry*. 126 (2011), 3; 941-947.

17. Helbig, Lars; Damrot, Julia; Johannes Hülsenbeck; Köberle, Beate; Brozović, Anamaria; Osmak,

Maja; **Fiket, Željka**; Kaina, Bernd; Fritz, Gerhard.

Late activation of stress-activated protein kinases/C-JUN-N-terminal kinases triggered by cisplatin-induced DNA damage repair defective cells. *Journal of Biological Chemistry*. 286 (2011), 15; 12991-13001.

18. Mikac, Iva; **Fiket, Željka**, Terzić, Senka; Barešić, Jadranka; Mikac, Nevenka; Ahel, Marijan.

Chemical indicators of anthropogenic impacts in sediments of the pristine karst lakes. *Chemosphere*. 84 (2011), 8; 1140-1149.

19. **Fiket, Željka**; Mikac, Nevenka; Kniewald, Goran.

Determination of trace elements in wines by high resolution inductively coupled plasma mass spectrometry. *Atomic Spectroscopy*. 31 (2010), 2; 44-55.

20. **Fiket, Željka**; Alajbeg, Anđa; Strmić Palinkaš, Sabina; Tari-Kovačić, Vlasta; Palinkaš, Ladislav; Spangenberg, Jorge.

Organic geochemistry of Jurassic-Cretaceous source rocks and oil seeps from the profile across the Adriatic-Dinaric carbonate platform. *Geologica Carpathica*. 59 (2008), 3; 225-236.

21. Kraić, Filip; Mocák, Jan; **Fiket, Željka**; Kniewald, Goran.

ICP MS analysis and classification of potable, spring, and mineral waters. *Chemical Papers*. 62 (2008), 5; 445-450.

22. **Fiket, Željka**; Roje, Vibor; Mikac, Nevenka; Kniewald, Goran.

Determination of arsenic and other trace elements in bottled waters by high resolution inductively coupled plasma mass spectrometry. *Croatia Chemica Acta*. 80 (2007), 1; 91-100.

### ***Scientific papers in Journals cited by WOS ( in press)***

1. Kristian, Puhr; Kristina, Pikelj; **Željka, Fiket**.

Can multiple fish farms be integrated within a semi-enclosed bay without causing acute ecosystem degradation? *Oceanologia*. (2017)

2. Gordana Medunić, Željka Kuharić, Adela Krivohlavek, **Željka Fiket**, Ankica Rađenović, Kristina Gödel, Štefica Kampać, Goran Kniewald

Geochemistry of Croatian superhigh-organic-sulphur Raša coal, imported low-S coal, and bottom ash: their Se and trace metal fingerprints in seawater, clover, foliage, and mushroom specimens. *International Journal of Oil, Gas and Coal Technology*. (2017)