

## LIST OF MENTORS 2018

No.	Fields of science	Name of mentor	Research Area	E-naslov
1	Biochemistry and Molecular biology	dr. Matej Vizovišek	Development of novel tools for noninvasive diagnostics and targeted drug delivery in cancer and inflammatory diseases based on protease targeting. During his work he will obtain a broad range of expertise in the fields of chemical biology, biochemistry, molecular biology, enzymology, cell biology and laboratory animals	<a href="mailto:matej.vizovisek@ijs.si">matej.vizovisek@ijs.si</a>
2	Biology	prof. dr. Marko Fonović	The candidate will apply mass spectrometry for determination of cysteine protease influence on cellular phosphorylation and glycosylation	<a href="mailto:marko.fonovic@ijs.si">marko.fonovic@ijs.si</a>
3	Biotechnology	doc. dr. Aleš Berlec		
4	Electronic Components and Technologies	doc. dr. Rok Zaplotnik	Young researcher will work in the field of low pressure plasma technologies	<a href="mailto:rok.zaplotnik@ijs.si">rok.zaplotnik@ijs.si</a>
5	Electronic Components and Technologies	doc. dr. Hana Uršič Nemevšek		
6	Elektrotecnic	doc. dr. Alenka Vesel	Plazemska sinteza ogljikovih nanosten / plasma synthesis of carbon nanowalls	<a href="mailto:alenka.vesel@ijs.si">alenka.vesel@ijs.si</a>
7	Energy engineering	doc. dr. Luka Snoj	Neutron calculations in fission and fusion reactors	<a href="mailto:luka.snoj@ijs.si">luka.snoj@ijs.si</a>
8	Physics	doc.dr. Lev Vidmar	Research in theoretical many-body condensed matter physics, with a special focus on topics such as: quantum dynamics, many-body localization, and quantum entanglement	<a href="mailto:lev.vidmar@ijs.si">lev.vidmar@ijs.si</a>
9	Physics	prof. dr. Janez Bonča	Solid State Theory	<a href="mailto:janez.bonca@ijs.si">janez.bonca@ijs.si</a>
10	Physics	prof.dr. Primož Zihelr	The candidate will work in the field of theoretical biophysics, specifically on models of epithelial tissues and on models of early embryonic	<a href="mailto:primoz.zihelr@ijs.si">primoz.zihelr@ijs.si</a>
11	Physics	dr. Iztok Urbančič	Develop advanced imaging and spectroscopic modalities offered by a unique super-resolution 2PE STED FLIM microscope to identify molecular events and interactions at the cell-(nano)material interface	<a href="mailto:iztok.urbancic@ijs.si">iztok.urbancic@ijs.si</a>
12	Physics	dr. Matjaž Humar	The PhD candidate will work in the field of biophotonics, where he will develop novel biological microlasers embedded in cells and tissues as a new tool for the study of biological systems.	<a href="mailto:matjaz.humar@ijs.si">matjaz.humar@ijs.si</a>
13	Physics	prof. dr. Matjaž Žitnik	Collective radiation effects triggered by the passage of intense electromagnetic pulses through matter	<a href="mailto:matjaz.zitnik@ijs.si">matjaz.zitnik@ijs.si</a>
14	Physics	prof. dr. Zdravko Kutnjak	Topological structures in ferroic materials	<a href="mailto:zdravko.kutnjak@ijs.si">zdravko.kutnjak@ijs.si</a>
15	Physics	prof. dr. Janez Dolinšek	Physical properties of high-entropy alloys	<a href="mailto:jani.dolinsek@ijs.si">jani.dolinsek@ijs.si</a>

16	Physics	dr. Andrej Gorišek	Experimental particle physics	<a href="mailto:andrej.gorisek@ijs.si">andrej.gorisek@ijs.si</a>
17	Physics	doc. dr. Natan Osterman	Experimental soft matter physics (microfluidics and microrheology of complex liquids)	<a href="mailto:natan.osterman@ijs.si">natan.osterman@ijs.si</a>
18	Chemistry	dr. Peter Rodič	Corrosion protection using sol-gel coatings	<a href="mailto:peter.rodic@ijs.si">peter.rodic@ijs.si</a>
19	Chemistry	doc.dr. Evgeny Goreshnik	Transition metal coordination chemistry: synthesis, structure, applicativity	<a href="mailto:evgeny.goreshnik@ijs.si">evgeny.goreshnik@ijs.si</a>
20	Materials	doc.dr. Anton Kokalj	Training of young researchers will be held in the field of physical chemistry and deals with quantum-chemical molecular modeling of physico-chemical surface processes that are relevant to both corrosion and heterogeneous (electro)catalysis	<a href="mailto:anton.kokalj@ijs.si">anton.kokalj@ijs.si</a>
21	Materials	prof. dr. Spomenka Kobe	Additive manufacturing of functionalized inorganic materials	<a href="mailto:spomenka.kobe@ijs.si">spomenka.kobe@ijs.si</a>
22	Materials	prof. dr. Sašo Šturm	The development of thermoelectric energy harvesting technologies and materials for sensor applications	<a href="mailto:saso.sturm@ijs.si">saso.sturm@ijs.si</a>
23	Materials	dr. Slavko Kralj	Preparation of magnetic nanoparticles for biomedical use such as: i) peptide synthesis as ligands for nanoparticle functionalization, ii) preparation of anisotropic magnetic nanoparticles, and iii) investigations of hybrid magneto-peptide nanostructures	<a href="mailto:slavko.kralj@ijs.si">slavko.kralj@ijs.si</a>
24	Materials	dr. Jakob König	Glassy materials for heat insulation.	<a href="mailto:jakob.konig@ijs.si">jakob.konig@ijs.si</a>
25	Materials	prof. dr. Uroš Cvelbar	Interdisciplinary field of material and plasma science, where he will work on design of 1D and 2D nanostructures of metallic oxides and sulphides for adoption and integration into various devices.	<a href="mailto:uros.cvelbar@ijs.si">uros.cvelbar@ijs.si</a>
26	Materials	doc. dr. Andreja Benčan Golob	Functional oxide perovskites	<a href="mailto:andreja.bencan@ijs.si">andreja.bencan@ijs.si</a>
27	Process engineering	prof. dr. Iztok Tiselj	Research in the field of nuclear technologies and nuclear safety with the deterministic and probabilistic methods	<a href="mailto:iztok.tiselj@ijs.si">iztok.tiselj@ijs.si</a>
28	Manufacturing technologies and systems	prof. dr. Igor Mekjavić	Environmental Physiology; ongoing projects include i) mitigation of heat wave-induced heat stress in industry, and ii) effect of simulated prolonged exposure to microgravity on physiological systems.	<a href="mailto:igor.mekjavic@ijs.si">igor.mekjavic@ijs.si</a>
29	Computer science and informatics	prof. dr. Peter Korošec	Development of innovative optimization algorithms that will be able to effectively solve new, unexplored problems through past experiences.	<a href="mailto:peter.korosec@ijs.si">peter.korosec@ijs.si</a>
30	Computer science and informatics	prof. dr. Nada Lavrač		
31	Computer science and informatics	prof. dr. Matjaž Gams		
32	Systems and cybernetics	prof. dr. Juš Kocijan	Dynamic systems identification using artificial intelligence/machine learning methods with emphasis on big data, computer-assisted modelling, online learning, probabilistic and kernel methods for various domains of modelling application	<a href="mailto:jus.kocijan@ijs.si">jus.kocijan@ijs.si</a>

33	Systems and cybernetics	prof. dr. Đani Juričić	Field of methods for e-maintenance of new generation of systems and process, automatic fault detection, forecasting of remaining life cycle with applications in electrochemical systems like batteries and fuel cells	<a href="mailto:dani.juricic@ijs.si">dani.juricic@ijs.si</a>
34	Telecommunications	doc. dr. Andrej Hrovat		
35	Telecommunications	doc. dr. Tomaž Klobučar	Information security, privacy and Internet technologies	<a href="mailto:tomaz@e5.ijs.si">tomaz@e5.ijs.si</a>
36	Control and care of the environment	prof. dr. Radmila Milačić	Field of monolithic chromatography and inductively coupled plasma mass spectrometry for speciation of trace elements in biological samples.	<a href="mailto:radmila.milacic@ijs.si">radmila.milacic@ijs.si</a>
37	Control and care of the environment	doc. dr. Jože Kotnik		