

LIST OF MENTHORS FOR YOUNG RESEARCHES FOR 2014

No	Fields of science	Name and surname	Research area	e-naslov
1	Physics	prof. dr. Igor Muševič	Young researcher will explore experimental topology and photonic properties of liquid crystal colloids and dispersions	igor.musevic@ijs.si
2	Physics	prof. dr. Peter Križan	Experimental elementary particle physics, rare B and D meson decays, development of detection methods	peter.krizan@ijs.si
3	Physics	prof. dr. Marko Mikuž	Measurement of proton-proton collisions with the ATLAS detector at LHC	marko.mikuz@ijs.si
4	Physics	prof. dr. Janez Dolinšek	Physical properties of complex metallic alloys and quasicrystals	janez.dolinsek@ijs.si
5	Physics	prof. dr. Dragan D. Mihailović	Ultrafast control of macroscopic quantum states	dragan.mihailovic@ijs.si
6	Physics	prof. dr. Simon Širca	Investigations of electromagnetic and spin structure of hadronic systems with polarized electron beams and targets	simon.sirca@ijs.si
7	Physics	doc. dr. Primož Pelicon	Spectroscopy of matter with photon and charge particle beams	primoz.pelicon@ijs.si
8	Physics	dr. Anže Zupanc	Belle II/ perform searches of new physics with precise measurements of rare B meson decays with missing energy	anze.zupanc@ijs.si
9	Physics	doc. dr. Jernej Fesl Kamenik	Higgs boson phenomenology and its implications for beyond Standard Model physics	jernef.kamenik@ijs.si
10	Physics	dr. Andrej Zorko	Novel quantum states of spin systems	andrej.zorko@ijs.si
11	Physics	dr. Jernej Mravlje	Thermoelectric effect in strongly correlated materials	jernef.mrvlje@ijs.si
12	Chemistry	prof. dr. Ingrid Milošev	Development and investigation of modern, environmental-friendly methods for corrosion protection of technologically important alloys based on electrochemical methods	ingrid.milosev@ijs.si
13	Chemistry	dr. Anton Kokalj	Physical chemistry and deals with molecular modeling of physico-chemical surface processes that are relevant for corrosion and heterogeneous (electro)catalysis	anton.kokalj@ijs.si
14	Chemistry	doc. dr. Aleksander Rečnik	Tropochemical twinning and its role in the initial stages of phase transformations in minerals	aleksander.recnik@ijs.si

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15	Chemistry	doc. dr. Gašper Tavčar	Synthesis of lanthanide fluorides in lower oxidation states	gasper.tavcar@ijs.si
16	Biochemistry and molecular biology	prof. dr. Boris Turk	Regulation of protease activity in immune response	boris.turk@ijs.si
17	Biochemistry and molecular biology	prof. dr. Vito Turk	Biochemical process proteolysis and its role in normal and pathological processes	vito.turk@ijs.si
18	Biochemistry and molecular biology	doc. dr. Marko Fonović	Effect of extracellular cathepsins on cell signaling of cancer cells	marko.fonovic@ijs.si
19	Varstvo okolja	prof. dr. Milena Horvat	Environmental analytical chemistry	milena.horvat@ijs.si
20	Energetika	dr. Luka Snoj	Neutron transport calculations in fusion reactors	luka.snoj@ijs.si
21	Energetika	dr. Radojko Jačimović	Development of k0-neutron activation analysis	radojko.jacimovic@ijs.si
22	Materials science and technology	prof. dr. Danilo Suvorov	Atomically controlled growth of oxides using Pulsed Laser Deposition (PLD)	danilo.suvorov@ijs.si
23	Materials science and technology	prof. dr. Miran Mozetič	Development of bioactive surfaces for biomedical applications	miran.mozetic@ijs.si
24	Materials science and technology	prof. dr. Darko Makovec	The young researcher will gain knowledge in chemical synthesis and characterization of fluorescent fluoride-based nanoparticles for biomedical applications	darko.makovec@ijs.si
25	Computer science and informatics	prof. dr. Sašo Džeroski	Design and use of machine learning methods from complex structured data	saso.dzeroski@ijs.si
26	Computer science and informatics	prof. dr. Nada Lavrač	Data mining and knowledge discovery	nada.lavrac@ijs.si
27	Electronic components and technologies	prof. dr. Barbara Malič	Electrocaloric properties of complex-perovskite based ceramics as function of chemical and phase composition, and microstructure	barbara.malic@ijs.si
28	Electronic components and technologies	prof. dr. Uroš Cvelbar	Atmospheric pressure plasma discharges and interactions on gas-solid or gas-liquid interfaces	uros.cvelbar@ijs.si
29	Neurobiology	prof. dr. Boris Rogelj	Role of RNA synthesis, processing, localization, signalization and interaction in neurodegenerative diseases	boris.rogelj@ijs.si

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30	Animal production	prof. dr. Vekoslava Stibilj	The research field of young investigator is development of the methods for determination iodine and selenium compounds in biological samples	vekoslava.stibilj@ijs.si
31	Biotechnology	prof. dr. Janko Kos	The role of endogenous inhibitors of cysteine proteases in regulation of cell cytotoxicity	janko.kos@ijs.si
32	Linguistics	doc. dr. Tomaž Erjavec	Language technologies and resources for non-standard language	tomaz.erjavec@ijs.si