

LIST OF MENTHORS FOR YOUNG RESEARCHERS FOR 2010

	Code of rese.	Name and surname	Code of science	Fields of science	Research area	e-mail
Natural sciences and mathematics						
1	14130	Svetlana Fajfer	1.02	Physics	Influence of massive scalar particles on the Standard model prediction at the LHC energy scale	svjetlana.fajfer@ijs.si
2	19163	Jure Zupan	1.02	Physics	Theoretical interpretations and predicitions for direct and indirect dark matter searches	jure.zupan@ijs.si
3	4943	Janez Bonča	1.02	Physics	Solid state and statistical physics	janez.bonca@ijs.si
4	14827	Matej Lipoglavšek	1.02	Physics	Nuclear physics - electron screening in nuclear reactions	matej.lipoglavsek@ijs.si
5	11854	Matjaž Žitnik	1.02	Physics	Ultrafast decay processes studied by resonant x-ray scattering	matjaz.zitnik@ijs.si
6	3939	Janez Dolinšek	1.02	Physics	Physics of smart materials/Physical properties of aluminum-based complex metallic alloys and quasicrystals	janez.dolinsek@ijs.si
7	7527	Boštjan Zalar	1.02	Physics	Nuclear magnetic resonance investigation of local and domain ordering in photosensitive liquid crystal elastomers	bostjan.zalar@ijs.si
8	14080	Denis Arčon	1.02	Physics	Magnetic resonance in un-conventional superconductors	denis.arcon@ijs.si
9	11598	Samo Korpar	1.02	Physics	Experimental particle physics-measurement of one of the rare decay channels of B or D meson	samo.korpar@ijs.si
10	12092	Boštjan Golob	1.02	Physics	Experimental Particle Physics, Measurements of CP Symmetry Violation in Heavy Meson System	bostjan.golob@ijs.si
11	16354	Rok Pestotnik	1.02	Physics	Measurements of rare B decays	rok.pestotnik@ijs.si
12	15288	Aleš Mrzel	1.04	Chemistry	The focus of the research will be the synthesis and characterization of novel nanostructures based on transition metals	ales.mrzel@ijs.si
13	1063	Boris Žemva	1.04	Chemistry	Synthesis and characterization of binary and coordination inorganic compounds containing fluorine	boris.zemva@ijs.si
14	3317	Adolf Jesih	1.04	Chemistry	Inorganic chemistry of transition elements, comparison of synthetic methods and products properties	adolf.jesih@ijs.si
15	15146	Zoran Mazej	1.04	Chemistry	Poly[Perfluorotitanate(IV)] Salts of Monovalent and Divalent Cations	zoran.mazej@ijs.si
16	6058	Stojan Stavber	1.04	Chemistry	Green approach to transformation of organic compounds	stojan.stavber@ijs.si
17	1290	Ingrid Milošev	1.04	Chemistry	PhD thesis will be devoted to the investigation of modern, environmental-friendly procedures for corrosion protection of technologically important alloys, e.g.	ingrid.milosev@ijs.si
18	15639	Gregor Gunčar	1.05	Biochemistry and molecular biology	Molecular mechanism of disulfide reduction by GILT in antigen presentation	gregor.guncar@ijs.si
19	7561	Boris Turk	1.05	Biochemistry and molecular biology	Cell death, cathepsins and cancer. Role of cysteine cathepsins and their inhibitors in cancer progression and cell death	boris.turk@ijs.si
20	18359	Janez Ščančar	1.05	Biochemistry and molecular biology	Biochemical, chemical and biological methods for investigation of chemical species of trace metals in environmental and biological samples	janez.scancar@ijs.si
21	412	Igor Križaj	1.05	Biochemistry and molecular biology	Intracellular activities of secreted phospholipases A2	igor.krizaj@ijs.si

22	4570	Jože Pungercar	1.05	Biochemistry and molecular biology	Biochemistry and Molecular Biology/Role and action of mammalian secreted phospholipases A2	joze.pungercar@ijs.si
23	10083	Aleksander Rečnik	1.06	Geology	'Geochemical properties and formation of wulfenite crystals in Mežica ore deposit'	aleksander.recnik@ijs.si
24	8314	Radmila Milačič	1.08	Care of the environment	The use of isotope dilution inductively coupled plasma mass spectrometry technique in environmental studies	radmila.milacic@ijs.si
25	11279	Nives Ogrinc	1.08	Care of the environment	Greenhouse gasses (CO ₂ and CH ₄) and carbon cycling in natural waters. The research would be performed in two different study areas: Gulf of Trieste, N	nives.ogrinc@ijs.si
Engineering sciences and technologies						
26	8945	Borut Smodiš	2.03	Energy engineering	Transport and speciation of radionuclides in areas contaminated by energy technology activities	borut.smodis@ijs.si
27	22289	Uroš Cvelbar	2.03	Energy engineering	Plasma synthesis of metal oxide nanowire/nanotube arrays for electrochemical and photochemical applications in energy conversion	uros.cvelbar@ijs.si
28	9090	Peter Panjan	2.04	Materials	Deposition of ceramic coatings and other thin films using high power pulsed magnetron sputtering (HPPMS) technique	peter.panjan@ijs.si
29	2556	Goran Dražič	2.04	Materials	The influence of additives on electrical and optical properties and crystal structure of titanium dioxide	goran.drazic@ijs.si
30	4292	Saša Novak Krmpotič	2.04	Materials	Shaping of anisotropic and gradient materials by use of electrophoretic deposition	sasa.novak@ijs.si
31	3937	Miran Čeh	2.04	Materials	Structural and chemical characterization of oxide nanostructures using high-resolution electron microscopy techniques	miran.ceh@ijs.si
32	15148	Darja Lisjak	2.04	Materials	Artificially structured multifunctional materials prepared with electromagnetophoresis	darja.lisjak@ijs.si
33	8012	Danilo Suvorov	2.04	Materials	Nano-engineering of self-assembled materials	danilo.suvorov@ijs.si
34	19169	Boštjan Jančar	2.04	Materials	Coherent intergrowth structures in perovskite systems	bostjan.jancar@ijs.si
35	19038	Andreja Benčan Golob	2.04	Materials	Synthesis and characterization of polycrystalline ceramics and single crystals based on alkaline niobates	andreja.golob@ijs.si
36	2830	Stanislav Strmcnik	2.06	Systems and cybernetics	Model based production control	stanislav.strmcnik@ijs.si
37	12570	Dunja Mladenec	2.07	Computer science and informatics	Machine learning and multimedia mining focused on semantics of textual data enhanced using background knowledge	dunja.mladenec@ijs.si
38	5209	Gorazd Kandus	2.08	Telecommunications	Radio channel modelling and simulation in advanced mobile communication systems	gorazd.kandus@ijs.si
39	10429	Miran Mozetič	2.09	Electronic comp. and technologies	Behavior of unstable radicals in non-equilibrium gaseous plasma	miran.mozetic@ijs.si
40	2627	Marija Kosec	2.09	Electronic comp. and technologies	Piezoelectric thick films for sensors and actuators	marija.kosec@ijs.si
41	4587	Barbara Malič	2.09	Electronic comp. and technologies	Thin films and 2DF structures of transparent conductive oxides and dielectrics from solutions	barbara.malic@ijs.si
42	3332	Leon Žlajpah	2.10	Manufacturing techn. and systems	Models, strategies and robot control algorithms for autonomous operation and for cooperation with humans or robots in unstructured environments	leon.zlajpah@ijs.si
43	12057	Iztok Tiselj	2.13	Process engineering	Modelling of heat and mass transfer in nuclear systems	iztok.tiselj@ijs.si
44	15087	Mihael Mohorčič	2.22	Communications technology	Dynamic composition of wireless sensor networks for efficient management of shared sensor resources	miha.mohorcic@ijs.si

Medical sciences						
45	12056	Igor Serša	3.06	Cardiovascular system	Study of thrombolysis by magnetic resonance and optical microscopy methods	igor.sersa@ijs.si
46	14676	Igor Mekjavič	3.06	Cardiovascular system	Environmental physiology	igor.mekjavic@ijs.si
Biotechnical sciences						
47	1873	Vekoslava Stibilj	4.03	Plant production	Iodine in its species in cultural plants	vekoslava.stibilj@ijs.si
48	15813	Boris Rogelj	4.06	Biotechnology	TDP-43 and FUS - functional analysis and implications for ALS/FTLD spectrum disease	boris.rogelj@ijs.si
Interdisciplinary studies						
49	12314	Primož Pelicon	7	Interdisciplinary studies	Application of high-energy focused proton beam in biology	primoz.pelicon@ijs.si
50	14829	Veronica Stoka	7	Interdisciplinary studies	Role of cysteine cathepsins and caspases in neurodegeneration	veronika.stoka@ijs.si
51	12750	Dejan Žontar	7	Interdisciplinary studies	Research on development of a high-resolution semiconductor probe for PET imaging	dejan.zontar@ijs.si