

**Popis odobrenih projekata na 9. zasjedanju hrvatsko-kineskog Povjerenstva za znanstvenu i tehnološku suradnju**

<b>No.</b>	<b>Project Title</b>	<b>Name of Croatian Applicant</b>	<b>Croatian Organization</b>	<b>Name of Chinese Applicant</b>	<b>Chinese Organization</b>
1	Comparison of the doped ceria film catalyst prepared using advanced chemical and physical deposition methods	Vilko Mandić	University of Zagreb, Faculty of Chemical Engineering and Technology	SHI Zhen	Hangzhou Dianzi University
2	Physiological effects of grass carp ( <i>Ctenopharyngodon idellus</i> ) adaptation to environments in Croatia and China	Ana Gavrilović	University of Zagreb, Faculty of Agriculture	TANG Rong	Huazhong Agricultural University
3	Bidding Strategy of a Virtual Power Plant in Energy and Reserves Markets	Hrvoje Pandžić	University of Zagreb Faculty of Electrical Engineering and Computing	Yang Dechang	China Agricultural University
4	Experimental study of bridge structures considering the asymmetric effect under multiple support excitation	Nina Čeh	University of Rijeka, Faculty of Civil Engineering	Li Luyu	Dalian University of Technology
5	Reducing the particle matter emissions by flue gas condensation	Neven Duić	University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture	Tan Houzhang	Xi'an Jiaotong University
6	Phenolic compounds green extraction from plant-endophytes using natural deep eutectic solvents	Ivana Radojčić Redovniković	University of Zagreb, Faculty of Food Technology and Biotechnology	Yan Jufen	School of Chemistry and Chemical Engineering, Anhui University of Technology
7	Investigation of bone reconstruction using attenuated immunogenicity xenobone composite graft fabricated by 3D printing	Dražen Matičić	University of Zagreb, Faculty of Veterinary Medicine	Li Huaqiong	Wenzhou Institute, University of Chinese Academy of Sciences (Wenzhou Institute of Biomaterials and Engineering)
8	Towards CO <sub>2</sub> free city mobility based on hydrogen	Ankica Kovač	University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture	PEI Yuchong	Huazhong University of Science and Technology
9	Improving resistance of wheat to abiotic and biotic stresses	Valentina Španić	Agricultural Institute Osijek	HU Yin-Gang	Northwest A&F University

10	Flexible integrated demand response in multi-energy system (FIRE)	Tomislav Capuder	University of Zagreb, Faculty of Electrical Engineering and Computing	Ning Zhang	Tsinghua University
11	High-strength and biodegradable silk fibroin/hydroxyapatite composite scaffold based on 3D printing technology	Budimir Mijović	University of Zagreb, Faculty of Textile Technology	ZHANG Keqin	Soochow University
12	Coordinated mission planning and intelligent control of UAV-USV Robotic System	Antonio Vasiljević	University of Zagreb, Faculty of Electrical Engineering and Computing	ZHANG Qin	Huazhong University of Science and Technology
13	Development of Composite Polymer Nanofibers for Controlled Drug Release	Srečko Valić	Ruđer Bošković Institute	Yong Liu	Beijing University of Chemical Technology
14	Topological photonic structures: linear and nonlinear propagation of light	Hrvoje Buljan	University of Zagreb, Faculty of Science	Chen Zhigang	Nankai University
15	High lift-off eddy current non-destructive testing of girth welded pipelines	Darko Vasić	University of Zagreb, Faculty of Electrical Engineering and Computing	Tian Guiyun	University of Electronic Science and Technology of China
16	Synthesis of novel low-dimensional materials for information applications and the characterization of their magnetic and optical properties	Marko Kralj	Institute of Physics	Yeliang WANG	Beijing Institute of Technology
17	Noncoding RNA regulation of herpes simplex virus infection of the human nervous system	Igor Jurak	University of Rijeka, Department of Biotechnology	PAN Dongli	Zhejiang University
18	Bioactive compounds of selected Mediterranean plants and their effects on gut microbiota	Sandra Pedisić	University of Zagreb, Faculty of Food Technology and Biotechnology	YOU Lijun	South China University of Technology
19	Phase transition mechanism of highly photocatalytically active zinc oxide nanoparticles	Martina Vrankić	Ruđer Bošković Institute	Ding Yang	Center for High-Pressure Science & Technology Advanced Research
20	Development of solvent resistant halohydrin dehalogenase for producing bioactive compounds	Maja Majerić Elenkov	Ruđer Bošković Institute	Tang Lixia	University of Electronic Science and Technology of China
21	Distribution of antibiotic resistance genes in wastewater treatment plants and receiving environments of China and Croatia	Sandi Orlić	Ruđer Bošković Institute	Hu Anyi	Institute of Urban Environment, Chinese Academy of Sciences

22	Body Area Networks for Athletic Fatigue Monitoring	Mario Cifrek	University of Zagreb, Faculty of Electrical Engineering and Computing	GAO Yueming	Fuzhou University
23	Development of Composite Hydrogel Based on Self-assembled Peptides and Poly(vinyl alcohol) for Replacement of Articular Cartilage	Leo Frkanec	Ruder Bošković Institute	ZHANG Wei	Dalian University of Technology
24	Quasi 2D organic-inorganic perovskites for light-emitting applications	Jasminka Popović	Ruder Bošković Institute	Ng Man Ching Alan	Southern University of Science and Technology
25	Cooperation Research on Ecological Restoration and Monitoring Technologies after Unexpected Disturbances of World Natural Heritage Sites	Bruno Zelić	University of Zagreb, Faculty of Chemical Engineering and Technology	SUN Geng	Chengdu Institute of Biology, Chinese Academy of Sciences
26	Heat transfer research based on particle deposition model and non-equilibrium plasma assisted combustion in gas turbine	Jakov Baleta	University of Zagreb, Faculty of Metallurgy, Sisak	Wang Jin	Hebei University of Technology
27	Dissecting the regulation of cell polarization	Igor Weber	Ruder Bošković Institute	Cai Huaqing	Institute of Biophysics, Chinese Academy of Sciences
28	High intensity ultrafast fiber lasers for frequency comb cooling of atoms	Ticijana Ban	Institute of Physics	ZHAO Luming	Jiangsu Normal University
29	Biocompatibility and cell scaffolding assessment of silk fibroin based materials	Igor Slivac	University of Zagreb, Faculty of Food Technology and Biotechnology	ZHANG Tonghua	Southwest University
30	Isobutanol production from lignocellulosic materials	Marina Tišma	Josip Juraj Strossmayer University of Osijek, Faculty of Food Technology Osijek	HAO Jian	Shanghai Advanced Research Institute, Chinese Academy of Sciences
31	Effects of selected pesticides on neuronal acetylcholinesterase expression	Zrinka Kovarik	Institute for Medical Research and Occupational Health	XIE Qunhui	Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
32	Study of Biomass Combustion Process with Emphasis on Pollutant Formation Mechanism	Milan Vujanović	University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture	WANG Xuebin	Xi'an Jiaotong University
33	Synthesis and efficacy of novel chorin derivatives as photosensitizers for photodynamic therapy	Davor Margetić	The Ruder Bošković Institute	Chen Zhilong	Donghua University

34	Development of applicative delivery systems of plant extracts for implementation in confectionery products	Draženka Komes	University of Zagreb, Faculty of Food Technology and Biotechnology	MIAO Song	College of Food Science, Fujian Agriculture and Forestry University, P.R.China
35	Energy efficient and environmentally friendly power system options for inland green ships	Nikola Vladimir	University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture	FAN Ailong	Wuhan University of Technology