

Beginning of the project	End of the project	The number of the VEGA committee	Number of the project	Name of the project	Project manager, resp. responsible researcher from the workplace of higher education for joint projects with SAS *	Workplace at the university	Abbreviation of the university	Required grant (€)	Allocated grant (€)
<b>Year 2014</b>									
2014	2017	7	VEGA 1/0631/14	New inorganic phosphors based on rare earth aluminates for applications in LEDs emitting white light	Klement Róbert	VILA	TnUAD	11 525,00	6 866,00
2014	2016	7	VEGA-2/0058/14	Ceramic layers prepared from organosilicon precursors for high-temperature corrosion protection of metals	Galusek Dušan	VILA	TnUAD	7 653,00	5 176,00
<b>Year 2015</b>									
2014	2017	7	VEGA 1/0631/14	New inorganic phosphors based on rare earth aluminates for applications in LEDs emitting white light	Klement Róbert	VILA	TnUAD	14 230,00	8 509,00
2014	2016	7	VEGA-2/0058/14	Ceramic layers prepared from organosilicon precursors for high-temperature corrosion protection of metals	Galusek Dušan	VILA	TnUAD	9 551,00	6 298,00
<b>Year 2016</b>									
2014	2017	7	VEGA 1/0631/14	New inorganic phosphors based on rare earth aluminates for applications in LEDs emitting white light	Klement Róbert	VILA	TnUAD	13 994,00	8 284,00
2014	2016	7	VEGA-2/0058/14	Ceramic layers prepared from organosilicon precursors for high-temperature corrosion protection of metals	Galusek Dušan	VILA	TnUAD	9 551,00	6 235,00
<b>Year 2017</b>									
2014	2017	7	VEGA 1/0631/14	New inorganic phosphors based on rare earth aluminates for applications in LEDs emitting white light	Klement Róbert	VILA	TnUAD	13 759,00	8 292,00
2017	2020	7	VEGA 2/0026/17	Transparent polycrystalline ceramic materials with submicron microstructure and luminescent properties	Galusková Dagmar	Centre for Functional and Surface Functionalized Glass	TnUAD	7 941,00	5 168,00
<b>Year 2018</b>									
2017	2020	7	VEGA 2/0026/17	Transparent polycrystalline ceramic materials with submicron microstructure and luminescent properties	Galusková Dagmar	Centre for Functional and Surface Functionalized Glass	TnUAD	9 838,00	6 254,00
2018	2021	7	VEGA 1/0527/18	New inorganic phosphors based on stoichiometric aluminates and silicates with long-term light emission for optical and biomedical applications	Klement Róbert	Centre for Functional and Surface Functionalized Glass	TnUAD	11 270,00	6 989,00
2018	2021	7	VEGA 1/0064/18	Corrosion and weathering of commercial glass	Liška Marek	Centre for Functional and Surface Functionalized Glass	TnUAD	21 494,00	11 503,00
2018	2021	7	VEGA 1/0431/18	Relationship between composition, structure and properties of inorganic-organic nanocomposite layers for protection of materials	Piško Alfonz	Centre for Functional and Surface Functionalized Glass	TnUAD	15 122,00	5 524,00
<b>Year 2019</b>									
2017	2020	7	VEGA 2/0026/17	Transparent polycrystalline ceramic materials with submicron microstructure and luminescent properties	Galusková Dagmar	Centre for Functional and Surface Functionalized Glass	TnUAD	9 838,00	6 478,00
2018	2021	7	VEGA 1/0527/18	New inorganic phosphors based on stoichiometric aluminates and silicates with long-term light emission for optical and biomedical applications	Klement Róbert	Centre for Functional and Surface Functionalized Glass	TnUAD	13 915,00	8 943,00
2018	2021	7	VEGA 1/0064/18	Corrosion and weathering of commercial glass	Liška Marek	Centre for Functional and Surface Functionalized Glass	TnUAD	21 494,00	12 006,00
2018	2021	7	VEGA 1/0431/18	Relationship between composition, structure and properties of inorganic-organic nanocomposite layers for protection of materials	Piško Alfonz	Centre for Functional and Surface Functionalized Glass	TnUAD	13 168,00	5 250,00

2019	2022	7	VEGA 1/0098/19	Multi-layered bioglass structures for regenerative medicine prepared by tape casting and lamination	Michálek Martin	Centre for Functional and Surface Functionalized Glass	TnUAD	7 878,00	4 887,00
<b>Year 2020</b>									
2017	2020	7	VEGA 2/0026/17	Transparent polycrystalline ceramic materials with submicron microstructure and luminescent properties	Galusková Dagmar	Centre for Functional and Surface Functionalized Glass	TnUAD	9 838,00	6 808,00
2018	2021	7	VEGA 1/0527/18	New inorganic phosphors based on stoichiometric aluminates and silicates with long-term light emission for optical and biomedical applications	Klement Róbert	Centre for Functional and Surface Functionalized Glass	TnUAD	13 685,00	9 268,00
2018	2021	7	VEGA 1/0064/18	Corrosion and weathering of commercial glass	Liška Marek	Centre for Functional and Surface Functionalized Glass	TnUAD	21 494,00	12 858,00
2018	2021	7	VEGA 1/0431/18	Relationship between composition, structure and properties of inorganic-organic nanocomposite layers for protection of materials	Plško Alfonz	Centre for Functional and Surface Functionalized Glass	TnUAD	13 512,00	6 053,00
2019	2022	7	VEGA 1/0098/19	Multi-layered bioglass structures for regenerative medicine prepared by tape casting and lamination	Michálek Martin	Centre for Functional and Surface Functionalized Glass	TnUAD	9 028,00	5 934,00
2020	2023	7	VEGA 1/0191/20	Bioresponsiveness and degradation of progressive bioactive materials with added functional properties	Galusková Dagmar	Centre for Functional and Surface Functionalized Glass	TnUAD	7 820,00	5 320,00
2020	2023	7	VEGA 2/0091/20	Structure and properties of bioactive glasses doped with ions with potentially therapeutic and antibacterial effects	Hujová Miroslava	Centre for Functional and Surface Functionalized Glass	TnUAD	21 788,00	12 368,00
2020	2023	7	VEGA 1/0456/20	Development and characterisation of spherical microparticles for preparation of advanced 3D glass and glass-ceramic structures	Kraxner Jozef	Centre for Functional and Surface Functionalized Glass	TnUAD	11 270,00	5 012,00
<b>Year 2021</b>									
2018	2021	7	VEGA 1/0527/18	New inorganic phosphors based on stoichiometric aluminates and silicates with long-term light emission for optical and biomedical applications	Klement Róbert	Centre for Functional and Surface Functionalized Glass	TnUAD	13 455,00	9 241,00
2018	2021	7	VEGA 1/0064/18	Corrosion and weathering of commercial glass	Liška Marek	Centre for Functional and Surface Functionalized Glass	TnUAD	21 494,00	13 114,00
2018	2021	7	VEGA 1/0431/18	Relationship between composition, structure and properties of inorganic-organic nanocomposite layers for protection of materials	Plško Alfonz	Centre for Functional and Surface Functionalized Glass	TnUAD	11 672,00	5 331,00
2019	2022	7	VEGA 1/0098/19	Multi-layered bioglass structures for regenerative medicine prepared by tape casting and lamination	Michálek Martin	Centre for Functional and Surface Functionalized Glass	TnUAD	9 372,00	6 244,00
2020	2023	7	VEGA 1/0191/20	Bioresponsiveness and degradation of progressive bioactive materials with added functional properties	Galusková Dagmar	Centre for Functional and Surface Functionalized Glass	TnUAD	8 740,00	6 025,00
2020	2023	7	VEGA 2/0091/20	Structure and properties of bioactive glasses doped with ions with potentially therapeutic and antibacterial effects	Hujová Miroslava	Centre for Functional and Surface Functionalized Glass	TnUAD	21 788,00	12 569,00
2020	2023	7	VEGA 1/0456/20	Development and characterisation of spherical microparticles for preparation of advanced 3D glass and glass-ceramic structures	Kraxner Jozef	Centre for Functional and Surface Functionalized Glass	TnUAD	13 915,00	6 320,00
2021	2024	7	VEGA 1/0171/21	Hot corrosion behavior and thermal shock resistance of a new type of thermal barrier coating with fluorite structure	Pakseresht Amirhossein	Centre for Functional and Surface Functionalized Glass	TnUAD	11 155,00	7 125,00
2021	2024	7	VEGA 1/0844/21	New semiconductor-based binary materials for sustainable and clean energy: from synthesis to H2 generation	Velasquez Garcia	Centre for Functional and Surface Functionalized Glass	TnUAD	10 752,00	7 250,00
2021	2024	7	VEGA 2/0028/21	Aluminosilicate glass and glass-ceramic materials reinforced by ion exchange and additional functionalities	Talimian Ali	Centre for Functional and Surface Functionalized Glass	TnUAD	14 490,00	10 287,00
<b>Year 2022</b>									
2019	2022	7	VEGA 1/0098/19	Multi-layered bioglass structures for regenerative medicine prepared by tape casting and lamination	Michálek Martin	Centre for Functional and Surface Functionalized Glass	TnUAD	9 028,00	5 909,00
2020	2023	7	VEGA 1/0191/20	Bioresponsiveness and degradation of progressive bioactive materials with added functional properties	Galusková Dagmar	Centre for Functional and Surface Functionalized Glass	TnUAD	8 912,00	6 018,00
2020	2023	7	VEGA 2/0091/20	Structure and properties of bioactive glasses doped with ions with potentially therapeutic and antibacterial effects	Hujová Miroslava	Centre for Functional and Surface Functionalized Glass	TnUAD	21 788,00	12 384,00



2018	2022	xx	APVV-17-0049	Novel glass and glass-ceramic rare-earth aluminates-based phosphors for energy-saving solid state lighting sources emitting white light (pc-WLEDs)	Klement Róbert	Centre for Functional and Surface Functionalized Glass	TnUAD	17 478,00	17 478,00
2019	2021	xx	APVV-SK-PL-18-0062	Corrosion of historical glasses	Hruška Branislav	Centre for Functional and Surface Functionalized Glass	TnUAD	2 000,00	2 000,00
2020	2024	xx	APVV-19-0010	Advanced materials with eutectic microstructure for high temperature and functional applications	Galusek Dušan	Centre for Functional and Surface Functionalized Glass	TnUAD	23 002,00	23 002,00
2021	2025	xx	APVV-20-0322	Nanostructured, functionally graded, and bioinspired 3D Ti-based implants	Michálek Martin	Centre for Functional and Surface Functionalized Glass	TnUAD	7 583,00	7 583,00
<b>Year 2022</b>									
2018	2022	xx	APVV-17-0049	Novel glass and glass-ceramic rare-earth aluminates-based phosphors for energy-saving solid state lighting sources emitting white light (pc-WLEDs)	Klement Róbert	Centre for Functional and Surface Functionalized Glass	TnUAD	8 716,00	8 716,00
2020	2024	xx	APVV-19-0010	Advanced materials with eutectic microstructure for high temperature and functional applications	Galusek Dušan	Centre for Functional and Surface Functionalized Glass	TnUAD	24 407,00	24 407,00
2021	2025	xx	APVV-20-0322	Nanostructured, functionally graded, and bioinspired 3D Ti-based implants	Michálek Martin	Centre for Functional and Surface Functionalized Glass	TnUAD	20 600,00	20 600,00
2022	2023	xx	SK-CN-21-0022	Multifunctional bioactive coatings for Ti- and Zr- based dental implants	Michálek Martin	Centre for Functional and Surface Functionalized Glass	TnUAD	6 000,00	6 000,00
2022	2026	xx	APVV-21-0016	Study of kinetics and degradation of the native surface of utility glass	Chromčíková Mária	Centre for Functional and Surface Functionalized Glass	TnUAD	16 708,00	16 708,00

### Structural funds

Beginning of the project	End of the project		Number of the project	Name of the project	Project manager, resp. responsible researcher from the workplace of higher education for joint projects with SAS *	Workplace at the university	Abbreviation of the university	Required grant (€)
<b>Year 2010</b>								
2010	2015		26220120056	Centre of excellence for ceramics, glass and silicate materials	Galusek Dušan/Hierwegová Ingrid	VILA	TnUAD	1 323 800,00
<b>Year 2014</b>								
2014	2015	xx	xx	Increasing the quality and capacity of human resources in the field of research and development at TnUAD through education, foreign cooperation and transfer of expertise into practice	Hierwegová Ingrid	VILA	TnUAD	1 181 872,49
<b>Year 2015</b>								
2015	2015	xx	xx	Centre for quality testing and diagnostics of materials	Jakubíková Zuzana	VILA	TnUAD	7 826 071,53
<b>Year 2016</b>								
2016	2017	xx	313011T546	New materials and technologies for industry in the 21st century	Hierwegová Ingrid/Šandrejová Monika	Centre for Functional and Surface Functionalized Glass	TnUAD	476 778,08
<b>Year 2019</b>								
2019	2021	xx	304011P822	Development of the innovation potential of the White Carpathian Glass Research and Development and Education Base aimed at strengthening and expanding cooperation with SMEs	Jakubíková Zuzana	Centre for Functional and Surface Functionalized Glass	TnUAD	284 312,70
2019	2023	xx	313011R453	Centre for functional and surface-functionalized glass	Šedivý Marek/ Kuniková Lucia	Centre for Functional and Surface Functionalized Glass	TnUAD	10 525 853,77

### H2020

2017	2024	xx	739566	Centre for functional and surface-functionalized glass	Galusek Dušan/ Hošťák Peter	Centre for Functional and Surface Functionalized Glass	TnUAD	15 000 000,00
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