

**PROGRAM IDEI\_PROIECTE DE CERCETARE EXPLORATORIE\_COMPETITIA 2011  
STIINTE INGINERESTI**

NR. CRT.	COD PROIECT	NUME DIRECTOR	PRENUME DIRECTOR	INSTITUTIE	TITLU	BUGET APROBAT 2014
1	PN-II-ID-PCE-2011-3-0028	Cormos	Calin-Cristian	Universitatea Babes-Bolyai din Cluj-Napoca	Innovative methods for chemical looping carbon dioxide capture applied to energy conversion processes for decarbonised energy vectors poly-generation	118,562
2	PN-II-ID-PCE-2011-3-0071	Mircea	Dragoman	Institutul National de Cercetare-Dezvoltare pentru Microtehnologie - IMT Bucuresti	Graphene nanoelectronic devices for high frequency applications	250,000
3	PN-II-ID-PCE-2011-3-0079	Brujan	Emil-Alexandru	Universitatea Politehnica din Bucuresti	Dynamics of cavitation bubbles generated by microsecond pulses of high-intensity focused ultrasound	140,250
4	PN-II-ID-PCE-2011-3-0088	CASCAVAL	DAN	Universitatea Tehnica "Gheorghe Asachi" din Iasi	Advanced separation of biosynthetic compounds by facilitated and synergetic pertraction	128,800
5	PN-II-ID-PCE-2011-3-0089	Badescu	Viorel	Universitatea Politehnica din Bucuresti	Nowcasting and forecasting of PV power plant operation	187,134
6	PN-II-ID-PCE-2011-3-0097	Albu	Felix	Universitatea Valahia din Targoviste	Advanced Adaptive Algorithms for Digital Hearing Aids	138,424
7	PN-II-ID-PCE-2011-3-0109	Precup	Radu-Emil	Universitatea Politehnica din Timisoara	New performance improvement techniques of control systems using experiment-based tuning	161,280
8	PN-II-ID-PCE-2011-3-0235	Oara	Cristian	Universitatea Politehnica din Bucuresti	Robust control in nonstandard cases	180,000
9	PN-II-ID-PCE-2011-3-0275	Huminic	Gabriela	Universitatea Transilvania din Brasov	Application of nanofluids to heat pipes for high performances in cooling systems	163,529
10	PN-II-ID-PCE-2011-3-0352	Moagar-Poladian	Gabriel	Institutul National de Cercetare-Dezvoltare pentru Microtehnologie - IMT Bucuresti	Prospective research regarding rapid prototyping processes for applications in the field of micro- and nanosystems realization	131,300
11	PN-II-ID-PCE-2011-3-0400	Dumitrescu	Bogdan	Universitatea Politehnica din Bucuresti	Sparse representations in signal processing	82,187
12	PN-II-ID-PCE-2011-3-0456	Marsavina	Liviu	Universitatea Politehnica din Timisoara	Micro-mechanical modelling of cellular materials with refinements on fracture and damage	195,000

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13	PN-II-ID-PCE-2011-3-0512	Mihai Valentin	Predoi	Universitatea Politehnica din Bucuresti	Advanced ultrasonic monitoring system for the structural integrity of pipes	70,312
14	PN-II-ID-PCE-2011-3-0513	Muller	Alexandru	Institutul National de Cercetare-Dezvoltare pentru Microtehnologie - IMT Bucuresti	Novel technologies based on micromachining and nano-processing of GaN/Si, for advanced microwave and photonic devices	157,000
15	PN-II-ID-PCE-2011-3-0520	Dimitrie	Alexa	SC COMFRAC R&D PROJECT EXPERTSRL	ELECTRIC POWER QUALITY AND ENERGY SAVING USING PERFORMANT POWER CONVERTERS FOR THE KNOWLEDGE BASED ECONOMY	70,500
16	PN-II-ID-PCE-2011-3-0538	VAN STADEN	JACOBUS	Institutul National de Cercetare-Dezvoltare pentru Electrochimie si Materie Condensata	Hightech-based Micro/Nanostructured Sensors Devices and Micro/Reactors in Real-time for Automated Process Analytical Multianalyte Platform Systems	233,125
17	PN-II-ID-PCE-2011-3-0570	van Staden	Raluca-Ioana	Institutul National de Cercetare-Dezvoltare pentru Electrochimie si Materie Condensata	Stochastic microsensors as new tools for fast assay of substances of biological importance	188,125
18	PN-II-ID-PCE-2011-3-0641	Voda	Alina	Universitatea "Dunarea de Jos" din Galati	ADVANCED CONTROL OF REVERSIBLE MANUFACTURING SYSTEMS OF ASSEMBLING AND DISASSEMBLING USING WHEELED MOBILE ROBOTS EQUIPPED WITH ROBOTIC MANIPULATORS	187,500
19	PN-II-ID-PCE-2011-3-0693	Albu	Mihaela	Universitatea Politehnica din Bucuresti	Active Distribution Grids. Model Identification and Analysis Using Synchronised Measurements - ActiveDGModel	180,000
20	PN-II-ID-PCE-2011-3-0698	LAZAROIU	Gheorghe	Universitatea Politehnica din Bucuresti	Innovative energy vector hydrogen-solid biomass	165,000
21	PN-II-ID-PCE-2011-3-0775	IRIMIE	Florin Dan	Universitatea Babes-Bolyai din Cluj-Napoca	Continous flow enzymatic dynamic kinetic resolutions for stereoselective bioorganic processes.	150,000
22	PN-II-ID-PCE-2011-3-0795	COZAR	ONUC	INSTITUTUL NAȚIONAL DE CERCETARE – DEZVOLTARE PENTRU MAȘINI ȘI INSTALAȚII DESTINATE AGRICULTURII ȘI INDUSTRIEI	RESEARCHES TO IMPROVE THE PHYSICAL - MECHANICAL PROPERTIES AND STRUCTURE OF THE BIODEGRADABLE PACKAGING MATERIALS FROM INDIGENOUS RAW MATERIALS	120,000
23	PN-II-ID-PCE-2011-3-0815	Stamatin	ioan	Universitatea din Bucuresti	Design of new advanced materials for Ionic Electrolyte Membrane Fuel Cells based on graphenes and superionic conductors	187,500
24	PN-II-ID-PCE-2011-3-0830	Neculoiu	Dan	Institutul National de Cercetare-Dezvoltare pentru Microtehnologie - IMT Bucuresti	Millimeter-wave Front-End for Imaging in Security and Medical Applications	196,250

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25	PN-II-ID-PCE-2011-3-0835	Nastase	Ilinca	Universitatea Tehnica de Constructii Bucuresti	INtelligent Air Diffusion for healthy environments: advanced strategies and EVAluation methods - INADEVA	132,589
26	PN-II-ID-PCE-2011-3-0837	Craciunescu	Corneliu Marius	Universitatea Politehnica din Timisoara	Exploration System for Optimization of Shape Memory Actuation in Compositional Spreads	133,469
27	PN-II-ID-PCE-2011-3-1017	Morjan	Ion	Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei	NOVEL LASER ABLATION-ASSISTED TECHNIQUE FOR PURE SINGLE-WALLED CARBON NANOTUBE SYNTHESIS	200,000
28	PN-II-ID-PCE-2011-3-1027	Datcu	Mihai	Universitatea Politehnica din Bucuresti	Enhancing four dimensional Synthetic Aperture Radar measurements	140,938
29	PN-II-ID-PCE-2011-3-1038	Pastravanu	Octavian-Cezar	Universitatea Tehnica "Gheorghe Asachi" din Iasi	Diagonal stability and flow invariance in control engineering. Techniques specialized for classes of dynamics, encompassed by a unified framework	129,375