

**PROGRAM IDEI_PROIECTE DE CERCETARE EXPLORATORIE_COMPETITIA 2011
STIINTE INGINERESTI**

NR. CRT.	COD PROIECT	NUME DIRECTOR	PRENUME DIRECTOR	INSTITUTIE	TITLU	BUGET APROBAT AN 2013
1	PN-II-ID-PCE-2011-3-0693	Albu	Mihaela	UNIVERSITATEA POLITEHNICA BUCURESTI	Active Distribution Grids. Model Identification and Analysis Using Synchronised Measurements - ActiveDGModel	237,032.70
2	PN-II-ID-PCE-2011-3-0097	Albu	Felix	Universitatea VALAHIA din Targoviste	Advanced Adaptive Algorithms for Digital Hearing Aids	169,890.59
3	PN-II-ID-PCE-2011-3-0089	Badescu	Viorel	Universitatea Politehnica din Bucuresti	Nowcasting and forecasting of PV power plant operation	223,495.33
4	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	147,863.25
5	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	203,012.86
6	PN-II-ID-PCE-2011-3-0028	Cormos	Calin-Cristian	UNIVERSITATEA BABES BOLYAI	Innovative methods for chemical looping carbon dioxide capture applied to energy conversion processes for decarbonised energy vectors poly-generation	154,833.37
7	PN-II-ID-PCE-2011-3-0795	COZAR	ONUC	INSTITUTUL NAȚIONAL DE CERCETARE – DEZVOLTARE PENTRU MAȘINI ȘI INSTALAȚII DESTINATE AGRICULTURII ȘI INDUSTRIEI ALIMENTARE	RESEARCHES TO IMPROVE THE PHYSICAL - MECHANICAL PROPERTIES AND STRUCTURE OF THE BIODEGRADABLE PACKAGING MATERIALS FROM INDIGENOUS RAW MATERIALS	185,111.25
8	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	194,795.73
9	PN-II-ID-PCE-2011-3-1027	Datcu	Mihai	Universitatea Politehnica Bucuresti	Enhancing four dimensional Synthetic Aperture Radar measurements	195,551.97
10	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	67,272.14
11	PN-II-ID-PCE-2011-3-0400	Dumitrescu	Bogdan	Universitatea Politehnica Bucuresti	Sparse representations in signal processing	98,199.26
12	PN-II-ID-PCE-2011-3-0178	Gheorghe	BRABIE	Universitatea Vasile Alecsandri din Bacau	INFLUENCE FACTORS, MODELLING OF SPECIFIC PHENOMENA AND OPTIMIZATION OF MICRO/MILLI DEEP DRAWING PROCESS OF METAL SHEETS WITH A THICKNESS UNDER 0.2mm	207,685.79
13	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	201,843.50

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14	PN-II-ID-PCE-2011-3-0775	IRIMIE	Florin Dan	Universitatea Babes-Bolyai	Continous flow enzymatic dynamic kinetic resolutions for stereoselective bioorganic processes.	316,043.60
15	PN-II-ID-PCE-2011-3-0698	LAZAROIU	Gheorghe	Universitatea POLITEHNICA din Bucuresti	Innovative energy vector hydrogen-solid biomass	212,765.06
16	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	198,655.97
17	PN-II-ID-PCE-2011-3-0512	Mihai Valentin	Predoi	Universitatea Poiltehnica din Bucuresti	Advanced ultrasonic monitoring system for the structural integrity of pipes	189,626.16
18	PN-II-ID-PCE-2011-3-0071	Mircea	Dragoman	INSTITUTUL NAȚIONAL DE CERCETARE-DEZVOLTARE PENTRU MICROTEHNOLOGIE - IMT București	Graphene nanoelectronic devices for high frequency applications	225,745.43
19	PN-II-ID-PCE-2011-3-0352	Moagar-Poladian	Gabriel	Institutul National de Cercetare-Dezvoltare pentru Microtehnologie	Prospective research regarding rapid prototyping processes for applications in the field of micro- and nanosystems realization	182,921.52
20	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	231,389.06
21	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	248,319.97
22	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	186,585.10
23	PN-II-ID-PCE-2011-3-0830	Neculoiu	Dan	INSTITUTUL NAȚIONAL DE CERCETARE-DEZVOLTARE PENTRU MICROTEHNOLOGIE - IMT București	Millimeter-wave Front-End for Imaging in Security and Medical Applications	236,468.33
24	PN-II-ID-PCE-2011-3-0235	Oara	Cristian	Universitatea Politehnica din Bucuresti	Robust control in nonstandard cases	216,715.61
25	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	142,783.98
26	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	234,377.93

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27	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	225,745.43
28	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	225,745.43
29	PN-II-ID-PCE-2011-3-0538	VAN STADEN	JACOBUS	INSTITUTUL NAȚIONAL DE CERCETARE-DEZVOLTARE PENTRU ELECTROCHIMIE ȘI MATERIE CONDENSATĂ - INCEMC- TIMIȘOARA	Hightech-based Micro/Nanostructured Sensors Devices and Micro/Reactors in Real-time for Automated Process Analytical Multianalyte Platform Systems	227,438.52
30	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	270,894.51
TOTAL						6,058,809.32