



ΑΝΑΡΤΗΤΕΑ ΣΤΟ ΔΙΑΔΙΚΤΥΟ

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΥΠΟΥΡΓΕΙΟ ΠΑΙΔΕΙΑΣ, ΕΡΕΥΝΑΣ & ΘΡΗΣΚΕΥΜΑΤΩΝ
ΓΕΝΙΚΗ ΓΡΑΜΜΑΤΕΙΑ ΕΡΕΥΝΑΣ & ΤΕΧΝΟΛΟΓΙΑΣ
ΔΙΕΥΘΥΝΣΗ ΥΠΟΣΤΗΡΙΞΗΣ ΔΡΑΣΕΩΝ ΕΡΕΥΝΑΣ & ΚΑΙΝΟΤΟΜΙΑΣ
ΤΜΗΜΑ ΑΝΑΠΤΥΞΗΣ ΕΡΕΥΝΗΤΙΚΟΥ ΔΥΝΑΜΙΚΟΥ
Μεσογείων 14-18, 115 27 Αθήνα

Αθήνα, 15/02/2018
Αρ. πρωτ.: 26958/12

ΘΕΜΑ: Έγκριση Προσωρινού Πίνακα Κατάταξης για την Επιστημονική Περιοχή Έρευνας «Β. Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες» στο πλαίσιο της 1ης Προκήρυξης ερευνητικών έργων ΕΛΙΔΕΚ για την ενίσχυση Μεταδιδακτόρων Ερευνητών/τριών (ΜΕ).

Έχοντας υπόψη:

1. το άρθρο 90 του «Κώδικα Νομοθεσίας για την Κυβέρνηση και τα Κυβερνητικά Όργανα» όπως κωδικοποιήθηκε με το αρ.1 του Π.Δ. 63/2005 (ΦΕΚ Α' 98) «Κωδικοποίηση της νομοθεσίας για την Κυβέρνηση και τα κυβερνητικά όργανα»
2. το άρθρο 47 του Ν. 4415/2016 (ΦΕΚ Α' 159) «Ρυθμίσεις για την ελληνόγλωσση εκπαίδευση, τη διαπολιτισμική εκπαίδευση και άλλες διατάξεις»
3. το Ν. 4429/21.10.2016 (ΦΕΚ Α' 199) «Ελληνικό Ίδρυμα Έρευνας και Καινοτομίας και άλλες διατάξεις», όπως τροποποιήθηκε και ισχύει
4. το Ν. 4310/2014 (ΦΕΚ Α' 258) όπως τροποποιήθηκε και ισχύει
5. το Π.Δ. 114/2014 (ΦΕΚ Α' 181) «Οργανισμός Υπουργείου Παιδείας και Θρησκευμάτων»
6. το Π.Δ. 70/2015 (ΦΕΚ Α' 114) «Ανασύσταση των Υπουργείων Πολιτισμού και Αθλητισμού, Υποδομών, Μεταφορών και Δικτύων, Αγροτικής Ανάπτυξης και Τροφίμων. Ανασύσταση του Υπουργείου Ναυτιλίας και Αιγαίου και μετονομασία του σε Υπουργείο Ναυτιλίας και Νησιωτικής Πολιτικής. Μετονομασία του Υπουργείου Πολιτισμού, Παιδείας και Θρησκευμάτων σε Υπουργείο Παιδείας, Έρευνας και Θρησκευμάτων, του Υπουργείου Οικονομίας, Υποδομών, Ναυτιλίας και Τουρισμού σε Υπουργείο Οικονομίας, Ανάπτυξης και Τουρισμού και του Υπουργείου Παραγωγικής Ανασυγκρότησης, Περιβάλλοντος και Ενέργειας σε Υπουργείο Περιβάλλοντος και Ενέργειας. Μεταφορά Γενικής Γραμματείας Βιομηχανίας στο Υπουργείο Οικονομίας, Ανάπτυξης και Τουρισμού»
7. το Π.Δ. 73/2015 (ΦΕΚ Α' 116) «Διορισμός Αντιπροέδρου της Κυβέρνησης, Υπουργών, Αναπληρωτών Υπουργών και Υφυπουργών»
8. τη με αριθμ. 136/20.3.2015 (ΦΕΚ Β' 389) Απόφαση του Πρωθυπουργού «Σύσταση θέσεων Αναπληρωτών Υπουργών»
9. τη με αριθμ. 8/25.9.2015 (ΦΕΚ Β' 2109) Απόφαση του Πρωθυπουργού «Ανάθεση αρμοδιοτήτων στον Αναπληρωτή Υπουργό Παιδείας, Έρευνας και Θρησκευμάτων Κωνσταντίνο Φωτάκη»

10. τη με αρ. πρωτ. 221711/Γ2 (ΦΕΚ 731/Υ.Ο.Δ.Δ./30.12.2016) Κοινή Απόφαση του Πρωθυπουργού και του Υπουργού Παιδείας, Έρευνας και Θρησκευμάτων με την οποία διορίζεται ως Γενική Γραμματέας Έρευνας και Τεχνολογίας του Υπουργείου Παιδείας, Έρευνας και Θρησκευμάτων η Ματρώνα Κυπριανίδου
11. τη με αρ. 196096/Ι2/28.11.2016 (ΦΕΚ Β' 3815) Υπουργική Απόφαση με θέμα «Κατανομή χρηματοδότησης Ελληνικού Ιδρύματος Έρευνας και Καινοτομίας»
12. τη με αρ. 16098/31.01.2018 Απόφαση σχετική με του προϋπολογισμό των Δράσεων ΕΛΙΔΕΚ
13. τη με αριθμό 245/23.3.2017 (ΦΕΚ Β' 1066) Υπουργική Απόφαση με θέμα «Ετήσιος προγραμματισμός των δράσεων και κατανομή των πόρων του Ελληνικού Ιδρύματος Έρευνας και Καινοτομίας (ΕΛΙΔΕΚ), για το έτος 2017»
14. τη με αρ. πρωτ. 3094/Ι2/9.1.2017 1η Προκήρυξη ερευνητικών έργων ΕΛΙΔΕΚ για την ενίσχυση Μεταδιδακτόρων Ερευνητών/τριών
15. Τον με αρ. πρωτ. 100804/Ι2/15.6.2017 Οδηγό Εφαρμογής της 1ης Προκήρυξης ερευνητικών έργων ΕΛΙΔΕΚ για την ενίσχυση Μεταδιδακτόρων Ερευνητών/τριών
16. Την με αρ. πρωτ της ΓΓΕΤ 150/ΙΒ2/29.01.2018 επιστολή, σχετικά με την απόσυρση της πρότασης 2369 από τη διαδικασία αξιολόγησης
17. Την με αρ. πρωτ 289/ΙΒ2/15.02.2018 επιστολή της Γενικής Γραμματέως Έρευνας και Τεχνολογίας, σχετικά με την πρόταση 2201
18. Το με αρ. πρωτ. 287/ΙΒ2/14.02.2018 Υπηρεσιακό Σημείωμα για την έγκριση των Πρακτικών της Θεματικής Επιτροπής Αξιολόγησης για την Επιστημονική Περιοχή Έρευνας "**Β. Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες**"

Αποφασίζουμε

1. Την έγκριση του Προσωρινού Πίνακα Κατάταξης προτάσεων της Επιστημονική Περιοχή Έρευνας «**Β. Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες**», όπως επισυνάπτεται στο πρακτικό της Θεματικής Επιτροπής Αξιολόγησης.
2. Στο **Παράρτημα** της παρούσας απόφασης παρουσιάζεται:
 - Ο Προσωρινός Πίνακας Κατάταξης των προτάσεων σε φθίνουσα βαθμολογική σειρά, για την Επιστημονική Περιοχή Έρευνας «**Β. Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες**» (Πίνακας Β.1.).

Η κατανομή των Προτάσεων στις Επιστημονικές Περιοχές έρευνας έχει βασιστεί στη σχετική δήλωση του/της ΜΕ κατά την υποβολή της Πρότασης, όπως αυτή τυχόν αναθεωρήθηκε κατά τη διαδικασία της αξιολόγησης στις περιπτώσεις που διαπιστώθηκε ότι το αντικείμενο της πρότασης εμπίπτει σε διαφορετική Επιστημονική περιοχή από την αρχικά δηλωθείσα.

 - Οι προτάσεις που δεν προκρίθηκαν στη Β' φάση αξιολόγησης (Πίνακας Β.2.).
 - Οι προτάσεις που κρίθηκαν ως μη επιλέξιμες (Πίνακας Β.3.)
 - Η πρόταση που αποσύρθηκε από τη διαδικασία αξιολόγησης (Πίνακας Β.4.)
3. Ο Προσωρινός Πίνακας Κατάταξης των προτάσεων για την Επιστημονική Περιοχή Έρευνας «**Β. Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες**» θα αναρτηθεί στις ιστοσελίδες www.gsrt.gr και www.elidek.gr

4. Στους υποψήφιους ΜΕ θα αποσταλεί η εξατομικευμένη αναφορά αξιολόγησης της πρότασης σύμφωνα με τα οριζόμενα στην προκήρυξη της δράσης. Ο/Η ΜΕ έχει δικαίωμα υποβολής τεκμηριωμένης ένστασης επί των αποτελεσμάτων αξιολόγησης, εντός προθεσμίας 10 εργάσιμων ημερών από την αποστολή της εξατομικευμένης αναφοράς.

Μετά την ολοκλήρωση της εξέτασης των ενστάσεων θα εκδοθεί ο Οριστικός Πίνακας Κατάταξης, ο οποίος θα δημοσιευτεί στις ιστοσελίδες της ΓΓΕΤ και του ΕΛΙΔΕΚ.

**Η ΓΕΝΙΚΗ ΓΡΑΜΜΑΤΕΑΣ
ΕΡΕΥΝΑΣ ΚΑΙ ΤΕΧΝΟΛΟΓΙΑΣ**

Δρ. Μ. Κυπριανίδου

ΠΑΡΑΡΤΗΜΑ

Β. ΕΠΙΣΤΗΜΟΝΙΚΗ ΠΕΡΙΟΧΗ ΕΡΕΥΝΑΣ «Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες»

Σύμφωνα με τον παρακάτω Προσωρινό Πίνακα Κατάταξης και λαμβάνοντας υπόψη το διαθέσιμο προϋπολογισμό της δράσης και τον προτεινόμενο προϋπολογισμό ανά πρόταση, προβλέπεται να χρηματοδοτηθούν **έως 35 προτάσεις**. Σύμφωνα με το Πρακτικό της Θεματικής Επιτροπής, εφόσον υπάρξουν επιπλέον κονδύλια για τη δράση, προτείνεται να τηρηθεί η κατάταξη και να χρηματοδοτηθούν κατά προτεραιότητα οι προτάσεις που έπονται και έχουν βαθμολογηθεί από την επιτροπή με 90.

Επισημαίνεται ότι με βάση τον Οδηγό Εφαρμογής της δράσης, προτάσεις που έχουν λάβει συνολική βαθμολογία μικρότερη των 60 μονάδων αποκλείονται από τη χρηματοδότηση.

Β1. ΠΡΟΣΩΡΙΝΟΣ ΠΙΝΑΚΑΣ ΚΑΤΑΤΑΞΗΣ

ΕΠΙΣΤΗΜΟΝΙΚΗ ΠΕΡΙΟΧΗ ΕΡΕΥΝΑΣ: Β. Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες ΠΡΟΣΩΡΙΝΟΣ ΠΙΝΑΚΑΣ ΚΑΤΑΤΑΞΗΣ		
Αριθμός Πρότασης	Τίτλος	Συνολική Βαθμολογία
1914	Novel Fluorescent Carbon-nanoforms encapsulating innovative polymer carriers for intranasal delivery of galantamine in a rat model of Alzheimer disease.	98
273	Virtual coaching Services for OldeR adults	96
1085	Novel Conversion Technologies of Waste Biomass to Food additives and Fine Chemicals	96
1337	Resilient network services for critical mHealth applications	95,5
193	Fluorescent inks, pastes and filaments based on luminescent carbon dots for cutting edge and bio- applications	95
2386	Human-Robot Synergetic Logistics for High Value Crops	95
230	Optical Content Addressable Memories for Fast Address Look-Up	95
254	MODELING ELECTROMAGNETIC EMISSIONS OF SPACE EQUIPMENT FOR EMC AND CLEANLINESS PURPOSES	95
2183	Low-Cost Carbon Nanotubes Photodetectors	95
580	Unravelling the Ariadne's thread into the microbiome of Anaerobic Digestion labyrinth	95
754	Resilient, system-wide seismic risk assessment of port facilities. Application to Thessaloniki Port system.	95
792	Dynamics of SPREADING on liquid substrates with complex rheology	94
2613	Deep Search in Large AudioVisual Databases	94
1311	Mechanistic Microscale Approach to the Microbial Degradation of Clouds of Oil Microdroplets	93,5
1257	Micro-Macro scale couplings in reactive transport processes in porous materials. Realistic 3D experiments towards Rigorous upscaled models	93
2490	Hydrogen and electricity production via water splitting in a tandem photoelectrochemical-perovskite solar cell.	93

ΕΠΙΣΤΗΜΟΝΙΚΗ ΠΕΡΙΟΧΗ ΕΡΕΥΝΑΣ: Β. Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες		
ΠΡΟΣΩΡΙΝΟΣ ΠΙΝΑΚΑΣ ΚΑΤΑΤΑΞΗΣ		
Αριθμός Πρότασης	Τίτλος	Συνολική Βαθμολογία
835	Explorations into spatial design and architecture incorporating art contribution and air participation. Creative form production and environmental integration.	93
990	Next Generation Hardware Accelerated Onboard Hyperspectral Data Handling	93
1179	Low-Temperature Growth of Perovskite Nanosystems for High-Performance Perovskite Solar Cells	92,5
216	Performance evaluation of Low Energy Asphalt mixes and their impact on Pavement Sustainability	92
603	Low-Cost Adjoint-enabled Uncertainty Quantification and Robust Design Optimization	92
2229	Smart-Actuated Prosthesis for Upper-Limb Amputees	91
2164	Numerical and experimental assessment of solar air heater systems performance towards zero energy buildings	91
543	Prevention and confrontation of environmental risks at the urban environment emphasizing on the assistance to people belonging to vulnerable groups (children, people with disabilities and the elderly)	91
172	Effect of Pore Surface Wettability on Mineral Scaling, a μ Fluidic approach.	90
2212	Hardware Acceleration of Machine Learning Applications in the Cloud	90
2053	Embedded Context-aware Machine Learning for Autonomous Vehicles	90
974	AGNES: Agile Geotechnics for Next-GEneration Wind-turbineS: enhancing their life-cycle performance and endurance to harsh loading	90
73	Augmented corporeal experiences in the hyper-tectonic environment of a digital platform	90
1184	Design and Development of a Reconfigurable Metamorphic Manipulator System	90
287	Sustainable conversion of agro-industrial REsidues and WAste to high-addeD value CHEMicals	90
2468	An Integrated tool for the Assessment of the Spatial Distribution of Geotechnical Parameters based on high Resolution 3d Geophysical Models	90
1067	A Systematic investigation of the Durability of Textile Reinforced Mortars (TRM) and of TRM/RC elements under harsh environments.	90
720	Floating Hybrid Mooring Wind Turbine Energy System	90
1508	Porous Carbon-Sulfur Composites for Lithium-Sulfur batteries	90
1237	Spatio-temporal Modelling of the Significant Wave Height Variability for Estimating the Wave Energy Potential in the Mediterranean Sea, with field applications in the Aegean and Ionian Sea	90
617	Seismic reliability of railway bridges under high-speed trains using a novel formulation for constrained dynamical systems	90
1981	Enhancing Computer Aided Decision through Deep Learning Techniques	90
1577	Enhanced Boiling in Space	90
1003	Engineering Gene-based Nanoparticles: A computer-aided study toward Targeted Cancer Therapeutics	90
588	perSonAlised weLlbeing Support leveraging a virtuAl coach	89
1510	Bioremediation of hydrocarbon releases in Deep Sea	89
196	Micro-Capacitors for Energy Storage	89

ΕΠΙΣΤΗΜΟΝΙΚΗ ΠΕΡΙΟΧΗ ΕΡΕΥΝΑΣ: Β. Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες		
ΠΡΟΣΩΡΙΝΟΣ ΠΙΝΑΚΑΣ ΚΑΤΑΤΑΞΗΣ		
Αριθμός Πρότασης	Τίτλος	Συνολική Βαθμολογία
1455	BRAIn Tumor Nanomechanical Fingerprints Identification and Classification through Atomic Force Microscopy	89
889	Development and Demonstration of a Photocatalytic Process for removing Pathogens and Pharmaceuticals from wastewaters	89
374	A heart-on-a-chip platform for preclinical testing of therapeutic nanovesicles	88
1268	Nanoremediation of micropollutants	88
1764	Framework for Pervasive Fatigue Monitoring	88
602	Analytical Micro Modeling Methods for Three Leaf Masonry	88
1977	Seismic Assessment and Retrofit of Buildings and Lifelines / Αποτίμηση Σεισμικής Επάρκειας και Ενίσχυση Κτιριακών Υποδομών και Εγκαταστάσεων	88
61	INVESTIGATION OF THE FATE AND REMOVAL OF MICROPLASTICS AND RELATED EMERGING CONTAMINANTS IN WASTEWATER TREATMENT PLANTS	87,5
124	Urban Water Games on Decision Making	87
206	Modeling extrusion-based bioprinting of 3D tissue scaffolds	87
515	OPERational decision making Tool for transport and urban planning towards sustainable urban MOBility	87
528	Geodetic Applications of the Triaxial Ellipsoid	87
2269	In silico prediction of endovascular aneurysm repair (EVAR) complications	86,5
1859	Development of novel processes to scale-up fermentation of engineered yeast strains producing high-value natural products in membrane bioreactors	86
1270	Industrial Circular Waste Valorization, Utilization, Exchange	86
593	Evaluation of MOTOrcyclists behavior and Road environment: an innovative APPROach	86
969	Fungal Systems Biotechnology for Sustainable Production of High-added Value Compounds	86
1083	Engage Prosumer-oriented solutions for combining Res Integration with Smes in Microgrids	85
178	A Universal Design Approach for Nonlinear Control Systems	85
1431	Content-aware Resource allocation In coopeRative cloud aRchitectUres with finite cacheS	85
1555	DistributEd FAUlt diagnosis and control of NeTworked autonomous vehicles	85
1598	Assessment and Mitigation of Landslide Risk of Slopes in NATURA Networks due to Climate Change and Creep	85
1803	Quality of Experience optimization in video streaming with Software-Defined Networking	85
2016	Thinking MRI: a paradigm shift towards accurate tissue characterization	85
431	Providing Access To Healthcare for people With disAbilitY	85
137	Real-time Energy Control system for Smart Grids using Artificial Intelligence	84
332	Developing novel ceramic biomaterials for scaffolding stem cells cultures	84
1811	Electrochromic Metal-Oxide Biosensors for Intelligent Food Packaging	83,5
1808	Advanced Nanostructured Catalysts for the Eco-friendly Process of CO2 Conversion to Fuels.	83,5

ΕΠΙΣΤΗΜΟΝΙΚΗ ΠΕΡΙΟΧΗ ΕΡΕΥΝΑΣ: Β. Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες		
ΠΡΟΣΩΡΙΝΟΣ ΠΙΝΑΚΑΣ ΚΑΤΑΤΑΞΗΣ		
Αριθμός Πρότασης	Τίτλος	Συνολική Βαθμολογία
142	NEXT GENERation electron device Simulation: Using ab-initio methods for opto-electronic 2D material properties and device operation	83
1657	PrEcision urban flood RiSk mapping through hIgh-reSoluTion Topography	83
877	Assuring the sustainability of technical debt	83
1837	MeQA: Methods to assess Quality Aspects in research articles	83
2437	Wind Turbine Blade Design and Optimization via Structural Tailoring	83
115	Development of a modal damping identification model for seismically excited 3-d steel structures considering soil-structure interaction effects	82,5
665	A Reconfigurable Analytical Platform for Multi-function Applications: From Detection of Food Pathogens to Monitoring of Medical Diseases	82,5
1569	Tuning the prOPerties of CuZn-based nanostructured CATalysts for fuel cell applications	82
1348	g-C3N4/Ag3PO4 nanocomposite heterojunction photocatalysts for versatile solar and visible light driven photoredox applications in environmental purification	82
1339	Innovative Flow Control Devices for Wind Turbine Airfoils	82
1305	Innovative devices for the seismic protection of buildings and infrastructure	81
1340	Development of advanced 3-D multi-scale modelling tools for Lithium-Ion batteries	81
93	ALleviating Energy poveRTy under Extreme Climate conditions	80
174	Compressed sensing methodologies using Hippocampus-Based network Architectures	80
1205	Mixed-reality Interaction-driven Game-based Learning	80
1329	ICN-based Internet of Things Ecosystem for Smart Object Interconnection and Service Enablement	80
1511	Experimental and numerical investigation of the optimal stem prosthesis length in total hip arthroplasty	80
1747	Advanced information modelling for safer structures against manmade hazards	80
1903	Personalized Adaptive Data-Driven Modelling of Short-term Glycaemic Dynamics in Type 1 Diabetes	80
2046	Collaborative Processing of Audio Content Contributed by Users Attending the Same Event	80
2184	Development of Contactless Base Seismic Isolation System	80
1564	Engineering a new generation of Short Dental Implants from the micro to the nanoscale	80
89	Graphene-based polyelectrolyte nanocomposites for energy applications	80
283	Abrasive Water-Jet Engraving and FEM simulation of the procedure	80
2272	A novel approach for assessing the effects of obstructive sleep apnoea syndrome on driving skills and drivers' behavior	79
2224	Well Placement and Control OPTimization in oil and gas field development	78,5
2507	The effect of Micro-Nano TOPOgraphy of biocompatible polymeric platforms on STEM cells behavior	78
765	Metallic composite coatings with graphene and graphene oxide nanoparticles for highly aggressive environments	78
1234	Network Function Virtualization ExperimeNtation Testbed	78

ΕΠΙΣΤΗΜΟΝΙΚΗ ΠΕΡΙΟΧΗ ΕΡΕΥΝΑΣ: Β. Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες		
ΠΡΟΣΩΡΙΝΟΣ ΠΙΝΑΚΑΣ ΚΑΤΑΤΑΞΗΣ		
Αριθμός Πρότασης	Τίτλος	Συνολική Βαθμολογία
455	DRone constellation mAnagement for liGht gOods Transport and techno-economic evaluation	78
861	Development and characterization of novel coatings on high entropy alloys using simple low cost techniques	77
465	Triggering Citizens' Mental Health through Smart City Networks and the Internet of Things: Conditions of Financial Crisis	77
1590	Experimental and numerical investigation of fundamental fluid and fire dynamics phenomena associated with external wind effects in facade fires	76,5
1411	Cold plasma technology application to food: Safety assurance of high quality fresh cut salad products	76
333	Drinking Water Security and Energy Saving in Water Supply Networks using simulation and optimization techniques (simheuristics)	75
401	Advanced characterization of fibrous preforms	75
582	Structural Sustainability and Losses	75
860	SARAND: Scalable Architecture for Real-time Analysis of Network Data	75
1301	diGitizing the Energy Network: recruiting IoT, Edge, and cloud technologies for optimal electricity gENERATION, distribuTION, managEMENT and consumption	75
1642	Disaggregated Co-Processor Architecture with Custom-Accelerator Augmentation Capability: a Specialized Configuration for Bioinformatics	75
1720	Urban location and spatial clustering of museums in Athens. Research platform for studying the spatial properties of urban cultural territories.	75
2397	Methods and Tools for the Analysis of Malicious Attacks in Cyber-Physical Systems	75
2684	Fostering Discussions in Massive Open Online Courses through Conversational Agent Technology	75
361	Industrial Symbiosis - A way towards Circular Economy	74
168	REsearch on CFD Modeling of two-phase jet releases and application in Hydrogen technologies	73,75
1304	Enhancement of Remotely Sensed Images-Super Resolution Reconstruction and Mapping	73
2047	Development of an integrated biorefinery scheme for the bioconversion of spent (waste) coffee grounds to biodegradable polyhydroxyalkanoate (PHA) polymers and enhanced PHA materials	73
1446	Development of biocompatible and biodegradable tri-layer hybrid multifunctional electrospun micro/nanofibrous GTR membranes for periodontal tissue regeneration	73
1809	Base Isolation Issues: Theory, Experiments, Numerics and Software Development for the Analysis of 3D Isolated Structures	72,5
2150	Low Cost Electrolytes and Electrodes for Redox Flow Batteries	72,5
561	Reverse Osmosis Membranes characteristics, for intermittent and batch operation ? materials and system integration	72
1580	A Blue Biorefinery for the Sustainable Production of Biodegradable Polymers from Microalgae Biomass	72
1794	A Novel Seismic Protection Scheme for Cultural Heritage Exhibits Using Auxetics	71,25
632	Smart Platform for Solar Photovoltaic Potential Assessment	70

ΕΠΙΣΤΗΜΟΝΙΚΗ ΠΕΡΙΟΧΗ ΕΡΕΥΝΑΣ: Β. Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες		
ΠΡΟΣΩΡΙΝΟΣ ΠΙΝΑΚΑΣ ΚΑΤΑΤΑΞΗΣ		
Αριθμός Πρότασης	Τίτλος	Συνολική Βαθμολογία
1422	Investigation of the impact of driver distraction on road safety and evaluation of attention resetting mechanism through behavioural naturalistic study in urban roads	70
1582	Eye-friendly software: Enhancing human-computer interaction for people with and without visual impairments	70
1886	Unraveling the causal profile of hematopoiesis	70
2080	PELOPS	70
2253	Development of an intoxication detection system using thermal infrared facial images	70
2469	SeniorAs sensing: semantic learning of daily practices in assistive living technologies for healthy aging	70
1655	Solar Zero Energy Building with Combined Heating Cooling Power, Advanced Insulation and Thermal Storage	70
1063	S-CoRe: Synthetic Coordinates-based Recommender System	70
2485	Towards the integration of Renewable sources ANd Storage systems In distribution networks by developing ancillary services soluTIONS	69
615	Ανάπτυξη και πειραματική διερεύνηση στροβίλου Wells μεταβλητής γεωμετρίας περυγίων από σύνθετα υλικά για εκμετάλλευση κυματικής ενέργειας	68
1709	MICROPLASTics in the TERRestrial and freshwAter environment	68
2612	Coastal Vulnerability Assessment due to Climate Change at Regional Scale ? Application to the Coastline of the Corinthian Gulf.	67
114	Biomechanical Studies and Finite Element Simulation of Abdominal Aortic Aneurysms.	65
140	IMFRASPECT: Development of an intelligent structural integrity inspection platform for industrial metal silos and tanks	65
180	Reduced Beam Section Moment Connections Subjected to Cycling Loading: Experimental Analysis and FEM Simulation	65
1326	Probabilistic Blast Assessment of important reinforced concrete Structures	65
1679	Surface Morphing AeRodynamic Techniques	65
1908	Development of a Methodology for the Assessment of CO2 Emissions from Passenger Cars under REal-World Driving Conditions	65
393	Information Forensics and Security: Source Camera Identification - Hardware Security	63
1312	Title of Proposal: Multi-hazard risk assessment for resilient lifelines	62
2470	The integrated waste-milling process for the pre-treatment, fractionation and valorisation of the Municipal Organic Wastes into chemical intermediates and energy	62
1441	Multi-sensing element for Plant Biology studies	61
749	Secure biomedical data mining using big data analytics and cloud computing technologies	60
1562	INNOVATIVE ARCHITECTURAL DESIGN AND SPATIAL SEMIOTICS FOR A REFUGEE/IMMIGRANT ACCOMODATION CENTER	60
1768	Innovative Techniques for Textile Antennas Reconfigurability in Wearable Applications	60

ΕΠΙΣΤΗΜΟΝΙΚΗ ΠΕΡΙΟΧΗ ΕΡΕΥΝΑΣ: Β. Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες ΠΡΟΣΩΡΙΝΟΣ ΠΙΝΑΚΑΣ ΚΑΤΑΤΑΞΗΣ		
Αριθμός Πρότασης	Τίτλος	Συνολική Βαθμολογία
2028	Vehicular Ad-hoc/Cellular Networks Towards the Internet of Vehicles	60
2435	Wireless Emissions and Traffic RoAd Conditions monitoring systEm	60
942	Early Warning System for Induced Seismicity in Enhanced Geothermal Systems	58
824	Numerical analysis/design of reinforced concrete frame-type structures	57,5
1638	Holistic Big Data Management, Analytics and Visualization for Cultural Heritage Scientific Decision Support, Sustainable Rehabilitation and Preservation of Values	57
237	Private Telephony Security	55,5
977	Cross-layer reconfiguration of applications in multi-clouds	55
1457	Multi-parameter seismic risk assessment of structures under influence of complex SITE effects for earthquake LOSS estimation using artificial intelligence	55
1816	Magnetic Nanoparticles (MNPs) as Nano-Sensors for Reservoir Characterization in Petroleum Industry	55
2709	Pilot digital interactive tool of territorial resources construction & management	53
222	Exploitation of industrial by-products and waste materials for the production of high performance cementitious composites.	51,5
671	ETHERnet-ready optical wireless communications for IoT applications	50
2633	?Contribution Of storage systems to enhance wind farm to supply the planned production and ancillary services?	50
966	Design and Evaluation of a Mixed Reality Multi-Hazard Disaster Prevention and Assessment System - ADMIRE Project?	50
1103	ANALYTICAL AND EXPERIMENTAL INVESTIGATION ON AN INNOVATIVE PROPOSAL CONCERNING THE IMPROVEMENT OF BRIDGE EARTHQUAKE RESISTANCE AND AESTHETICS USING NON LOAD-BEARING MEMBERS	47
1878	Novel Techniques for Medical X-Ray Image Processing via Sparse Representations	45
2357	Rock fragmentation control by the application of UAV technology: A contribution towards profitability and workplace safety.	40
482	Multi-technique platform, based on optical spectroscopic and imaging methods, for the characterization of artworks and cultural heritage materials	40
2314	PM2.5 emissions from combustion of different types of biomass. Size distribution and their quantitative composition.	37,5
1974	Greek MUnicipalitieS offerINg ancillary services to the GRID	30

B2. ΠΡΟΤΑΣΕΙΣ ΠΟΥ ΔΕΝ ΠΡΟΚΡΙΘΗΚΑΝ ΣΤΗ Β' ΦΑΣΗ ΑΞΙΟΛΟΓΗΣΗΣ

ΕΠΙΣΤΗΜΟΝΙΚΗ ΠΕΡΙΟΧΗ ΕΡΕΥΝΑΣ Β. Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες ΠΡΟΤΑΣΕΙΣ ΠΟΥ ΔΕΝ ΠΡΟΚΡΙΘΗΚΑΝ ΣΤΗ Β' ΦΑΣΗ ΑΞΙΟΛΟΓΗΣΗΣ	
Αριθμός Πρότασης	Τίτλος
8	Novel brick units to enhance the seismic resilience of infill walls
81	Promoting the Green Option of Nuclear Technology
94	Porous nanostructured silicon coatings for drug eluting ureteral stents
99	Automatic Control System for industrial refrigeration units and cooling chambers with smart adaptation to the operating and environmental conditions

106	Dielectric barrier discharge (DBD) plasma actuators for active flow control
131	Multiscale GFEM for Structural Analysis of Composite Materials
134	Using automated graph restructuring for IT security risk mitigation and resilience in business and Critical Infrastructures
156	iAMD - A decision support tool for assisting ophthalmological clinical decision making
160	Design and implementation of a novel power converter topology on Wave Energy Conversion systems (WECs) for power factor correction and catastrophic system failure response?
177	Design and development of a decision support system for the classification of patients with brain cancer based on genomic data
183	Tomography Theory and Technology for Neutrality in Large-scale Complex Networks
209	Monitoring and assessing driver behaviour in different road and traffic environments using smartphone sensors and on board diagnostics
213	Securing the future of Cultural Heritage sites, with the use of smart monitoring, advanced numerical modelling and artificial intelligence technology. Area of interest: the Acropolis of Athens
223	Self-powered nanozyme photoelectrochemical (PEC) biosensors for glucose monitoring
224	Υπολογισμός, σχεδιασμός και κατασκευή μονόζυγους που στηρίζεται στο χώρο του παταριού
279	Direct Current in Ports and Ships
288	Control of Wastewater Treatment Plants
295	A dynamic traffic assignment approach for graph-based control-theoretic tools in the study of business cycles and economic policy
309	2D and 3D seismic performance of earth dams with fault rupture propagation
364	Supervisory Control and Fault Detection for Manufacturing Processes
382	Advanced thermoelectric energy harvesting by nanostructured & hierarchical composites for self-powered & autonomously driven structural health monitoring
403	SmArT Exergy Efficient GRIDs for SituatioN AWare Management In Low VoLtage Grids
428	Epilepsy knowledge base
432	Novel techniques for the removal of organic micro-pollutants from sewage sludge by anaerobic digestion
438	Dealing with the emerging European electric energy distribution Challenges using Advanced Real Time simulation capabilities
480	Biodiesel accelerated Oxidation towards DEposit formation Control
492	Predictive simulations of disperse multiphase turbulent flows using large-scale data driven and machine learning techniques
525	Computational assessment of the mechanically induced rupture risk of vulnerable plaque in coronary arterial bifurcations
529	SURFAce waters' PHOSHOrus recovering
542	Biochar-assisted phytoremediation of contaminated agricultural soil: data analysis combining geophysical methods and numerical simulation
551	High Accuracy Electrical Brain Imaging
574	Nitrogen fixation by air plasma for green fertilization: Searching for breakthrough paths of nitrogen oxide synthesis via modelling, parametric analysis, and experiments
592	Computational electromagnetics in anisotropic media: VIE solvers, near field stimulation, and characteristic modes
611	Dynamic characterization and visualization of discontinuities
661	High Pressure Innovations for Safe Ready-to-Eat Food Product Design, Implementation and Process Validation
664	Multiscale Modelling of Carbon Nanotube Modified Composites. From Nano to Structures

670	Alternative CMOS-compatible plasmonic materials towards enhanced active functionality
686	A land - use decision support system
726	Contribution to the Removal of Pesticides by Micellar Enhanced Ultrafiltration (MEUF)
757	Smart nano-reinforced cementitious aggregates (SNCA) and piezoelectric transducers (PZTs) for real-time strain and damage assessment in reinforced concrete structures
786	Development of an integrated decision support and management system for "waste-to-water" actions in coastal areas
819	Integrated Methodology for the Documentation, Assessment, Monitoring and Sustainable REtrofit of Historic STone Arched Bridges
837	Lipid Bilayers Mechanics Growth
848	An innovative methodology for the optimization of process parameters for external grinding for vehicle applications with the aid of experimental, analytical and statistical techniques
851	Concrete-steel interaction effects on causes of RC structural performance
874	Cloud Collaborative Land Surveying: Standardize and Develop a VGI Framework for Land Surveying Observables
880	ZEUS: A tool to assess Zero Energy Urban Sustainability
902	Creation of geo-information system for the identification and documentation of the historic roads in combination with their promotion as a network of cultural routes and monuments
982	Solar Energy Combined Heat and Power Systems for Net Zero Energy Buildings
1002	Group-Location-Aware Services
1034	Surveying environmental and energy data of a ship and optimizing their management
1073	Double punch optimized test for fiber reinforced concrete
1097	Innovative materials and technologies for 3D-printed electromagnetic interference suppressors in electronic devices
1121	Analogy Aided Design: Theories of Musical Proportions in Architecture. Perspectives on Sound-Centered Design.
1204	Development and Construction of an experimental setup as a proof of concept for an internal combustion rotary engine
1216	Profile Extraction of Electricity Users by using Data Mining Techniques
1232	Artificial Intelligence in Edge Networks
1238	Novel methods and tools for optimized and reactive production scheduling systems
1244	Biotechnological exploitation of wild strains of greek Basidiomycetes for the production of bioactive small molecules and macromolecules with applications in cosmetic and biocatalysis industries
1246	Railway Tunnel Regulation Outline and database
1258	Integrated valorization strategies for winery wastes: Hot spots for phenolics recovery and biosurfactants production
1259	A new methodology for flexural behavior monitoring of reinforced concrete beams strengthened with FRP plates
1269	A multi-modeling approach for green solvent design and its integration in multi-product biorefineries
1285	Reforming neonatal screening for congenital hypothyroidism: IT solutions with a direct impact on every newborn
1350	Ο ενδιαμέσος χώρος μεταξύ μουσείου και δημόσιου χώρου και η διαμόρφωσή του σε κατώφλι διασύνδεσης και ώσμωσης μουσείου και κοινωνίας
1408	Development of hybrid intelligent methods for effective human computer interaction

1420	3D Weakly Supervised Semantic Labeling and Object Extraction for Airborne Urban LiDAR Point Clouds
1433	Development of a methodology for evaluating the structural integrity of Nano-modified with graphene Cement based materials in environmental aging conditions with advanced non-destructive techniques
1434	Enhancement of CORSSA array existing installation with strong motion and rotational instruments for the study of near field translations and rotations
1444	The development of the contemporary settlements around archaeological sites in Greece and their connection to the enhancement of the archaeological sites: The case study of Ancient Messene
1458	Optimum Design of Wind Turbines Preventing Collapse
1471	Optimal Resource Management in Projects, using Computational Intelligence
1514	Metal Oxide Phase Change Quantum Tunelling nano-Junctions for Non-Volatile Random Access Memory Cells
1521	Development and application of indices and models to determine and manage heat-stress levels in intensive sheep production systems using advanced numerical methods
1522	Nonlinear Chiral Plasmonic Sensing
1523	Development of assessment tools for safe driving behaviour: definition of cut-off scores for healthy and cognitively impaired elderly
1553	A system for In-silico trial of nanoparticles for atherosclerosis treatment
1563	Upgrading port and harbour structures in a changing climate under a nonstationary risk-based framework
1649	Innovative forms of Interactive Storytelling in virtual environments: development of new interactive narrative mechanisms and user experience analysis with Virtual Reality and multi-sensorial interfaces
1658	Composite materials in wind turbines blades
1661	Safe Culture: A Framework for Strengthening Seismic Risk Protection of Cultural Heritage Buildings
1662	Investigation of the Seismic behaviour of vertical COnnectors between Structural members of Ancient MONuments
1708	Human activity based Personal Intelligent assistants
1719	Interactive Keyword Spotting-driven Transcription Engine
1771	Land use changes in protected area and their future: The case of Axios Delta National Park
1785	Applied research on innovative electrohydrodynamic (EHD) flow technologies
1824	A Framework on Autonomous Robotic Servicing on Orbit: Dynamics, Planning and Control
1856	Social Network Data as Indicators for Bathing Water Quality
1894	Plastic Instabilities in Metals: Coarse-Grained, Ultrafine-Grained and Nano-Crystallines
1895	Landslide risk assessment model for disaster prevention and mitigation
1897	2D Transition Metal Dichalcogenide Tunnel FETs
1913	Multiscale Modeling of Polymer Nanocomposites
1920	Effects of anisotropy in elastic and poroelastic soil as well as of moving load speed variability on dynamic behavior of rigid pavements
1937	Music Emotion and Attention-based Summarization using Physiological Signals and fMRI
1956	Big Data Performance Analytics for Solar Plants
1959	Algae Engineering: research and development of novel algae technologies for the production of high added value chemicals
2001	ECofriendly Design of Optimized PUmpeD Storage Hydropower Plants

2025	User Centered Accurate and Efficient Electro-encephalography Interfaces
2026	Emerging Thresholds of Sustainable Landscapes. A landscape analysis model applied to West Thessaloniki area
2050	Integrated system for OPTimum remediation FUNDS allocation
2052	Flood Monitoring at national scale
2055	Development of a new atomistic model for Hydrogen Sulfide with emphasis on the study of hydrate systems
2060	Safety Analysis and proactive real-Time Traffic management of URban Networks
2076	Hydrological method for the reclamation of polluted sites by the development of irrigation-drainage design applied on phytoremediations
2104	Novel approach for high-reliability RF MEMS switches using high-k nanostructured dielectrics
2106	BioStructural Materials for Additive Restoration Techniques
2137	The effect of hydrogen cathodic charging of steel specimens on their technological and energy storage properties
2142	A holistic approach to pervious concrete research in Greek urban areas: Technoeconomical and hydrological analysis
2152	Variational description of spinodal decomposition and necking
2155	Non-Orthogonal Buffer-Aided and Secure Device-to-Device communication
2172	Nanostructured biodegradable fibrous polymeric scaffolds for cardiovascular tissue engineering
2181	Vibration control of smart composite structures using shunted piezoelectric transducers and neuro-fuzzy techniques
2192	Design, development and testing of expandable locked intramedullary nail for diaphyseal fractures and diaphyseal bone defects of the metacarpal bones
2194	Developing novel methodologies for composite to composite and metal to composite joining
2214	Resonating devices fabricated on optical fibers by direct laser writing
2223	Microwave microscopy: Elegant Nanoscale Imaging using GHz-range frequencies on Materials with technological Applications
2244	An Information-Centric Industrial Internet System (ICIIS). A Novel Approach for the Industrial Internet of Things.
2246	Life Cycles of ENgineering Structural Elements
2326	Augmented Accessibility to Architectural Monuments with the use of advanced 3D technologies
2327	Reinforced concrete infrastructures with self protected properties for prolonged lifetime
2331	Numerical modelling of the dynamic phenomena occurring during composite material processing
2347	Effect of the Manufacturing Processes in Microstructure and Properties of Shape Memory Alloys (SMA)
2405	Neuro-Inspired Coding of imagEs and vidEos
2406	Alternate Characterization of Digital Integrated Circuits and Systems
2432	Stochastic analysis of composite structures with mechanical properties based on microstructure
2448	Study, Design and Implementation of novel experimental electronic devices for Research and Education in modern optical communication systems
2464	Development of tool that determines the heating and cooling energy systemsA operation in a cost efficient way
2471	Hard-Real Time Scheduling Resilient to Core Failures
2473	Waste Seaweeds and other solid biomass as energy feedstock to support the sustainable development of coastal regions and islands

2512	Development of Efficient Software for the Analysis of Reinforced Concrete structures with Bond-Slip
2514	Advanced Biogas to Electricity in an Optimized Low Temperature -Solid Oxide Fuel Cell - an Integrated Approach
2515	Solving a fish processing by-product disposal problem through biogas production and microalgae cultivation
2519	A Scalable, Highly trusted, and Interoperable sEcurity pLatform for the smart griD
2527	The effect of nanomaterials on the durability aspects of mortars and concretes: A comparison with organic coatings and corrosion inhibitors.
2559	Modulating the topology and mechanical properties of collagen to control cells behavior
2585	Graphene-based mass biosensor for early cancer diagnosis
2589	Microstructure and dynamic tensile properties of advanced high strength steels (AHSS) welds

Β3. ΠΡΟΤΑΣΕΙΣ ΠΟΥ ΚΡΙΘΗΚΑΝ ΩΣ ΜΗ ΕΠΙΛΕΞΙΜΕΣ

ΕΠΙΣΤΗΜΟΝΙΚΗ ΠΕΡΙΟΧΗ ΕΡΕΥΝΑΣ Β. Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες ΠΡΟΤΑΣΕΙΣ ΠΟΥ ΚΡΙΘΗΚΑΝ ΩΣ ΜΗ ΕΠΙΛΕΞΙΜΕΣ	
Αριθμός Πρότασης	Τίτλος
311	Targeted Delivery of Ruthenium Anticancer Agents by PLGA-PEG Nanoparticles
2201	LIGHTNING OVERVOLTAGES ON ISLAND-BASED ELECTRIC NETWORKS COMBINING RENEWABLE ENERGY SOURCES AND ONSHORE POWER SUPPLY FOR SHIPS

Β4. ΠΡΟΤΑΣΗ ΠΟΥ ΑΠΕΣΥΡΘΗΚΕ ΑΠΟ ΤΗ ΔΙΑΔΙΚΑΣΙΑ ΑΞΙΟΛΟΓΗΣΗΣ

ΕΠΙΣΤΗΜΟΝΙΚΗ ΠΕΡΙΟΧΗ ΕΡΕΥΝΑΣ Β. Επιστήμες Μηχανικού και Τεχνολογικές Επιστήμες ΠΡΟΤΑΣΗ ΠΟΥ ΑΠΟΣΥΡΘΗΚΕ ΑΠΟ ΤΗ ΔΙΑΔΙΚΑΣΙΑ ΑΞΙΟΛΟΓΗΣΗΣ	
Αριθμός Πρότασης	Τίτλος
2369	spatial monitoring and DEcision support tool for COASTal, terrestrial und marine areas