FCCN UNIDADE DA FCT
Tecnologia para o Conhecimento

Rede Nacional de Computação Avançada - Fundação para a Ciência e Tecnologia, I.P.

Candidaturas aprovadas no Concurso para Projetos de Computação Avançada FCT/CPCA/2022/01 (3ª Ed.) - A2 Acesso Projeto ou Regular
Listagem de resultados preliminares A2 (por painel científico)

São apresentadas as seguintes listas ordenadas de candidaturas por painel segundo os critérios definidos no aviso de abertura do concurso (ver legenda no final):

P1 – Physics and Mathematics

Referência	IR	Título / Title	Nota Final	Plataforma	Centro Operacional	Recursos atribuídos
2022.15813.CPCA.A2	Sérgio Domingos	Probing structural dynamics of artificial molecular machinery using microwave spectroscopy	9,83	Navigator	LCAUC	100%
2022.15892.CPCA.A2	Orlando Oliveira	High statistical lattice computation of propagators and vertices in Landau gauge	9,75	Navigator	LCAUC	100%
2022.15804.CPCA.A2	Miguel Zilhao	Dynamics of bosonic stars	9,68	Navigator	LCAUC	75%
2022.15885.CPCA.A2	João Lopes	Numerical Tests of a Superfluid Effective Field Theory in the 3d O(2)-model.	9,23	Cirrus	INCD	75%
2022.15822.CPCA.A2	Pedro Borlido	Ab initio search for practical superconductors	9,22	Navigator	LCAUC	75%
2022.15760.CPCA.A2	António Júnior	Dynamical spin-charge coupling in van der Waals nanostructures	8,98	Cirrus	INCD	75%
2022.15832.CPCA.A2	Estelina Lora da Silva	Reaction mechanism of HYDROgen evolution CATalysed by low-dimensional systems (RHYDROCAT)	8,84	Oblivion	HPCUE	75%
2022.15672.CPCA.A2	José Coutinho	Light and elevated Temperature Induced Degradation of n-type Solar Silicon: Pitfalls and Remedies	8,81	s/r	s/r	s/r
2022.15571.CPCA.A2	Gareth Williams	Shining Light on Solids: Understanding Light Bursts from Ultrafast Laser-Driven Electron Motion in Solids	8,74	s/r	s/r	s/r
2022.15826.CPCA.A2	Manuel Franco	Exploring Novel Organic Materials for Electronics	8,37	s/r	s/r	s/r
2022.15881.CPCA.A2	Carlos Reis	Opto-electronic and electron-phonon properties of epitaxial Group-IV metamaterials	8,14	s/r	s/r	s/r
2022.15886.CPCA.A2	Miguel Araújo	Many-body quantum phases of moiré systems	8,04	s/r	s/r	s/r

P2 – Chemistry and Materials

Referência	IR	Título / Title	Nota Final	Plataforma	Centro Operacional	Recursos atribuídos
2022.15888.CPCA.A2	Pedro Simões	Mechanisms of protection of lactic acid bacteria by fructo-oligosaccharides: a molecular simulation study	9,47	Navigator	LCAUC	100%
2022.15818.CPCA.A2	Alexandra Carvalho	Enhancement of Proteins to address Health Conditions	9,44	Cirrus	INCD	100%
2022.15575.CPCA.A2	German Sanchez	A coarse-grained molecular dynamic simulation framework to unveil the interactions between mixtures of diverse nature Pluronic in aqueous solutions	9,36	Oblivion	HPCUE	100%
2022.15802.CPCA.A2	Jose Gouveia	MXene-based transition metal single atom catalysts for nitrogen dissociation	9,20	Navigator	LCAUC	75%
2022.15882.CPCA.A2	Nuno Galamba	Parkinson's Disease and α-Synuclein Aggregation: A Coarse-Grained/All-Atom Molecular Dynamics Approach for Targeting a Cyclic Peptide Drug	9,06	Cirrus	INCD	75%
2022.15873.CPCA.A2	Rui Loureiro	Large-spectrum antiviral drug development for influenza: towards the minimization of seasonal outbreaks and the prevention of future pandemics	9,03	Navigator	LCAUC	75%
2022.15579.CPCA.A2	Maria João Ramos	Biodegrading unsatured polyesters - establishing the enzymatic catalytic mechanism of Pseudomonas sp. MIS38 lipase	8,97	Oblivion	HPCUE	75%
2022.15697.CPCA.A2	Luis Loura	Enhancing membrane permeation of MRI contrast agents with molecular umbrellas	8,96	Navigator	LCAUC	75%
2022.15859.CPCA.A2	Iuliia Voroshylova	SiSes systems for safe and efficient energy storage: Multiscale Theoretical Approach	8,66	s/r	s/r	s/r
2022.15744.CPCA.A2	Luís Martins	Ionic hydrogels for technological applications– a molecular dynamics simulation study	8,42	s/r	s/r	s/r
2022.15709.CPCA.A2	Pedro Pacheco	Numerical modelling of erosive and abrasive wear in gas-solid cyclones within the CFD-DEM framework	8,29	s/r	s/r	s/r
2022.15850.CPCA.A2	Margarida Brito	Advanced computational design of novel chemical reactors	8,15	s/r	s/r	s/r
2022.15883.CPCA.A2	Jorge Marques	Can microsolvation stabilize repulsive interactions? A computational attempt to answer	7,96	s/r	s/r	s/r
2022.15794.CPCA.A2	Paulo Costa	Tackling halogen anisotropy with force field methods: a systematic validation of charge sets using alchemical free energy calculations	7,93	s/r	s/r	s/r
2022.15630.CPCA.A2	Nuno Bandeira	CO2 valorisation through quantum chemistry.	7,88	s/r	s/r	s/r
2022.15855.CPCA.A2	Alfredo Carvalho	PHARMASORB - Adsorbents for pharmaceuticals decontamination of water	7,66	s/r	s/r	s/r

P3 - Engineering and Technology

Referência	IR	Título / Title	Nota Final	Plataforma	Centro Operacional	Recursos atribuídos
2022.15877.CPCA.A2	Carlos Silva	Investigation of the turbulent/non-turbulent interface in non-equilibrium turbulence by means of direct numerical simulations	9,29	Navigator	LCAUC	100%
2022.15851.CPCA.A2	Ana Zózimo	HIDRALERTA Plus	8,86	Oblivion	HPCUE	75%
2022.15647.CPCA.A2	Guilherme Vaz	Medium and High-fidelity Aerodynamic Models for Wind Farm Power Optimization	8,45	Navigator	LCAUC	75%
2022.15828.CPCA.A2	Shan Wang	Computational Fluid Dynamics (CFD) analysis of renewable energy devices	8,28	Cirrus	INCD	75%
2022.15876.CPCA.A2	António Muralha	High-Velocity Water Jets: Comparison between numerical and experimental data of the jet stream power	8,14	s/r	s/r	s/r
2022.15808.CPCA.A2	Carlos Couto	Development of physics-informed machine learning models for predicting the behaviour of steel structures	7,93	s/r	s/r	s/r

P4 – Life and Health Sciences

Referência	IR	Título / Title	Nota Final	Plataforma	Centro Operacional	Recursos atribuídos
2022.15858.CPCA.A2	Vítor Sousa	Population genomics of hybridization and response to climate change: combining new bioinformatic methods with omics data from endemic Iberian freshwater fish	9,27	Cirrus	INCD	100%
2022.15827.CPCA.A2	Rui Figueira	Portuguese Biodiversity Data Portal and associated services to PORBIOTA RI user community	9,24	Stratus	INCD	100%
2022.15874.CPCA.A2	Irina Moreira	The influence of a known mutation into the stargazin/Kv7.2 dynamics and function.	8,99	Navigator	LCAUC	75%
2022.15825.CPCA.A2	Bruno Nevado	Deleterious and compensatory mutations and their role in evolutionary radiations	8,86	Cirrus	INCD	75%
2022.15878.CPCA.A2	Miguel Machuqueiro	In silico study of peptidic dendrimers as transfection agents in RNA vaccines	8,72	Cirrus	INCD	75%

Referência	IR	Título / Title	Nota Final	Plataforma	Centro Operacional	Recursos atribuídos
2022.15871.CPCA.A2	Patrícia Brito	Multi-omic approaches to study evolution of domestication in non-conventional yeasts	8,56	Cirrus	INCD	75%
2022.15805.CPCA.A2	Daniel Sobral	Capacity building in genomic epidemiology of viral threats through expansion of INSaFLU and training provision	8,53	s/r	s/r	s/r
2022.15891.CPCA.A2	Ines Isidro	Workflows for single-cell transcriptomics in human in vitro breast cancer models	8,45	s/r	s/r	s/r
2022.15845.CPCA.A2	Bruce Milne	Identifying multi-target cyclic peptide inhibitors of coronavirus cell entry	8,36	s/r	s/r	s/r
2022.15890.CPCA.A2	Hugo Martiniano	A Machine Learning Approach for Patient Stratification in a Whole Genome Sequencing Cohort of Autism Spectrum Disorder Patients	7,99	s/r	s/r	s/r

P5 – Earth and Environmental Sciences

Referência	IR	Título / Title	Nota Final	Plataforma	Centro Operacional	Recursos atribuídos
2022.15706.CPCA.A2	Roman Chertovskikh	Magnetic field generation by flows quasiperiodic in space	9,13	Oblivion	HPCUE	100%
2022.15857.CPCA.A2	Anabela Oliveira	PERFECT - oPEncoasts as a Relocatable Forecast Engine for Coastal Digital Twins	9,06	Cirrus	INCD	75%
2022.15841.CPCA.A2	Alberto Azevedo	WORSICA: Water detection web service for coastal, inland and irrigation network applications	9,05	Cirrus e Stratus	INCD	75%
2022.15879.CPCA.A2	José Silvestre	AGRISPACE: Portuguese AGRIculture data SPACE	8,48	Stratus	INCD	75%
2022.15893.CPCA.A2	Paola Castellano	A Platform to environmental monitoring system: CoastNet Research Infrastructure	8,20	s/r	s/r	s/r
2022.15819.CPCA.A2	Ricardo Santos	HealthyCities - CFD modelling of urban flows: landscape and building design for outdoor and indoor air quality	7,91	s/r	s/r	s/r

P6 – Social and Economic Sciences

Referência	IR	Título / Title	Nota Final	Plataforma	Centro Operacional	Recursos atribuídos
2022.15824.CPCA.A2	Andre Peres	Deep-Cog: a Deep Neural Network for Abnormal Cognitive Decline Detection Based on Multimodal Data	8,71	Navigator	LCAUC	100%
2022.15869.CPCA.A2	Joana Gonçalves-Sá	PTPARL-D: Annotated corpus of Portuguese Parliament Debates	8,09	Stratus	INCD	75%

Legenda da tabela

Referência	referência FCT da candidatura.
Título / Title	Título do projeto no qual se insere a candidatura.
IR	nome do Investigador Responsável
Nota Final	Nota final atribuída à candidatura após avaliação técnica e científica de acordo com o Aviso de Abertura do presente Concurso.
Plataforma	plataforma atribuída à candidatura.
Centro Operacional	Centro Operacional atribuído à candidatura.
	LCAUC: Laboratório de Computação Avançada da U. Coimbra
	HPCUE: High Performance Computing da U. Évora
	INCD: Infraestrutura Nacional de Computação Distribuída
Recursos atribuídos	percentagem de recursos atribuídos face ao pedido na candidatura.
	100%: atribuição de 100% dos recursos computacionais solicitados na candidatura. De acordo com o aviso de abertura de concurso as 20% candidaturas mais bem classificadas terão até 100% dos recursos computacionais solicitados.
	75%: atribuição de 75% dos recursos computacionais solicitados na candidatura. De acordo com o aviso de abertura de concurso as 40% candidaturas mais bem classificadas, a seguir às 20% mais bem classificadas, terão até 75% dos recursos computacionais solicitados
	s/r: sem recursos computacionais disponíveis, sendo elegível para eventual alocação futura, caso venha a existir capacidade computacional adicional.
	Não admitida: não cumpriu os recursos mínimos para Acesso Projeto definidos no Aviso de Abertura do Concurso.