



**Lista cu proiectele de cercetare derulate în**  
**Facultatea de Chimie, Universitatea “Alexandru Ioan Cuza” din Iași**  
**în perioada 2019-2023**

Nr. crt.	An	Cod grant/contract	Director	Tema	Durata (ani)	Suma/an
<b>2019</b>						
1.	2019	Proiect nr. 39/tema (nr) 04-4-1121-2015/2020	Prof. dr. Aurel Pui	Magnetic and magnetoresistive polymetallic nano-oxide: structure, magnetic and transport propertie	2019	3200 \$
2.	2019	PN-III-P1-1.1-PD-2016-0962	Conf. dr. Laura Gabriela Sarbu	Sinteza unor noi sisteme hibride [2.2]paraciclofan-flavonoide cu potentiala activitate antimicrobiana	2018-2020	125000 RON
3.	2019	Proiect IUCN nr. 59/tema tema nr. 03-4-1128-2017/2019	Prof. dr. Doina Humelnicu	Adsorptive performance of mesoporous materials towards rare earth elements from synthetic and industrial wastewaters using NAA and AAS techniques	2019	3700 \$
4.	2019	Proiect bilateral Romania-Belarus AR-FRBCF-2018-2019	Prof. dr. Doina Humelnicu	To study the regularities of the sorption of heavy metal ions in a model system using the defecate of beet sugar production for the development of an effective sorbent and the creation of the bases of waste-free production	2018-2019	3500 RON
5.	2019	CNFIS-FDI-2019-0129	Prof.dr. Ionel Mangalagiu	Cercetarea de Excelenta in Domeniul Substantelor Antimicrobiene	2019	352000 RON
6.	2019	PN-III-P1-1.1-TE-2016-1205	Conf. dr. Gheorghita Zbancioc	New Polyfunctional Azasteroids Mimics: fluorescent and biologically active compounds	2018-2020	225000 RON
7.	2019	Grant IUCN nr. 13 tema 04-4-1121-2015/2020	Lect. dr. Carmen Mita	Substitution effect of iron with transitional metal ions on structural, magnetic and transport properties of A <sub>2</sub> Fe(Mo,W)O <sub>6</sub> double perovskites (A=Ca,Sr, Ba)	2019	3700 \$
<b>2020</b>						
1.	2020	Dubna, Proiect nr. 35/tema nr.04-4-1121-2015/2020	Conf. dr. Nicoletta Cornei	Study of magnetic transport and catalytic properties in magnetic (nano)materials composite	2020	2000 \$
2.	2020	PN-III-P1-1.1-PD-2016-0962	Conf. dr. Laura Gabriela Sarbu	Sinteza unor noi sisteme hibride [2.2]paraciclofan-flavonoide cu potentiala activitate antimicrobiana	2018-2020	21466 RON

3.	2020	Proiect IUCN nr. 67/cod tema f 03-4-1128-2020/2022	Prof. dr. Doina Humelnicu	Investigations on the adsorptive performance of mesoporous sorbents towards heavy metal ions retention from wastewaters using NAA and AAS techniques: Competitive studies	2020	3000 \$
4.	2020	Proiect AR-FRBCF-2020-2021 in cadrul acordului de colaborare Academia Romana – Academia Belarus	Conf.dr. Maria Ignat	Development of adsorbents and catalysts for new practical applications based on mesoporous molecular sieves and core/shell nanoparticles	2020-2021	3500 RON
5.	2020	PN-III-P2-2.1-PED-2029-4215	Prof.dr. IORDAN Alexandra Raluca	Validation of unprecedented inorganic nanofibers adsorbent connected to active carbon for removal of pharmaceuticals in wastewater (VALID)	2020-2022	92076 RON
6.	2020	PN-III-P1-1.1-TE-2016-1205	Conf. dr. Gheorghita Zbancioc	New Polyfunctional Azasteroids Mimics: fluorescent and biologically active compounds	2018-2020	72388 RON
7.	2020	Grant IUCN nr. 12, tema 04-4-1121-2015/2020	Lect.dr. Carmen Mita	Structural, magnetic and transport properties of the Alk <sub>2</sub> -xRexFeMoO <sub>6</sub> and Alk <sub>2</sub> -xRexFeWoO <sub>6</sub> (Alk=Ba, Ca, Sr; Re=Sm, La; T=Ni, Co; 0<x<0.3, 0<y<0.5 double perovskites)	2020	6000 \$
8.	2020	PN-III-P2-2.1-PED-2019-2484 // nr PED 494/2020	Conf. Dr. Vasile-Robert Gradinaru	Conceperea de platforme peptidice modern inspirate din lumea vie	2020-2022	51500 RON
9.	2020	PN-III-P1-1.1-PD-2016-1510	As.dr. Adrian Iulian Borhan	Nanomateriale pe baza de oxizi polimetali cu utilizari in fotocataliza [POLYNANO]	2018-2020	42979 RON
10.	2020	PN-III-P1-1.1-TE-2019-2037	As.dr. Adrian Iulian Borhan	Producerea hidrogenului si tratarea avansata a apei utilizand fotocatalizatori inovativi cu heterostructuri 3D	2020-2022	100000 RON
<b>2021</b>						
1.	2021	IES/R3/203157	IGNAT Maria, Lect.univ.dr.	Understanding graphene based electronic memory devices, Collaboration agreement between De Montfort University (England and Wales) and UAIC, Funder: The Royal Society	2021-2023	-
2.	2021	COST Action CA18220 Working Group: WG2, WP3	IGNAT Maria, Lect.univ.dr.	European network of FURan based chemicals and materials FOR a Sustainable development (FUR4Sustain)	2019-2024	-
3.	2021	IUC DUBNA 04-4-1142-2021/2025	Conf. dr. Nicoleta Cornei	Composites based on perovskites and hexaferrites: synthesis, magnetic properties, transport characteristics	2021	9,986.06 RON
4.	2021	IUC DUBNA 03-4-1128-2017/2022	Prof.dr. Humelnicu D.	Studies of adsorptive properties of titanosilicates materials towards heavy metals using NAA and ICP-AES techniques	2021	9,999.22 RON
5.	2021	PN-III-P4-ID-PCE-2020-1385	PUI Aurel, prof.univ. dr.	Nanoreactoare fotocatalitice innovative de tip miez/manta@gol@manta	2021-2023	444,982.00

6.	2021	PN-III-P4-ID-PCE-2020-0371	MANGALAGIU Ionel, prof. univ. dr.	Dezvoltarea unei noi generatii de agenti antimicrobieni cu schelet hybrid azaheterociclic prin metode ecologic prietenoase	2021-2023	597,737 RON
7.	2021	PN-III-P4-ID-PCE-2020-0818	GHINEȚ Alina, Dr. habil.	Liganzi P2X7R ca agenți terapeutici potențiali pentru tratamentul bolilor inflamatorii cronice ale intestinului și ale cancerului aferent	2021-2023	488,791.93 RON
8.	2021	PN-III-P1-1.1-PD-2019-0442	DARIE-ION Laura , dr.	ZeinCoDrug - Conjuțați de $\alpha$ -zeină utilizați ca sisteme pentru eliberarea controlată a medicamentelor	2020-2022	140,820.76 RON
9.	2020	PN-III-P1-1.1-TE-2019-2037	As.dr. Adrian Iulian Borhan	Producerea hidrogenului si tratarea avansata a apei utilizand fotocatalizatori inovativi cu heterostructuri 3D	2020-2022	190,500 RON
<b>2022</b>						
1.	2022	PN-III-P1-1.1-PD-2019-0442	DARIE-ION Laura , dr.	ZeinCoDrug - Conjuțați de $\alpha$ -zeină utilizați ca sisteme pentru eliberarea controlată a medicamentelor	2020-2022	80,150 RON
2.	2022	PN-III-P1-1.1-TE2019-2037	BORHAN Adrian Iulian, dr.	Revolution3D - Producerea hidrogenului și tratarea avansată a apei utilizând fotocatalizatori inovativi cu heterostructuri 3D	2020-2022	141,226.58 RON
3.	2022	PN-III-P2-2.1-PED- 2019-4215, UAIC coordonator	IODAN Alexandra-Raluca, prof. univ. dr.	Validarea unui nou adsorbant anorganic cu morfologie de nano-fibre conectat la carbon activ pentru indepartarea unor produse farmaceutice din ape uzate	2020-2022	157,924.00
4.	2022	PN-III-P2-2.1-PED-2019-2484 // nr PED 494/2020	Conf. Dr. Vasile-Robert Gradinaru	Conceperea de platforme peptidice modern inspirate din lumea vie	2020-2022	86,000 RON
5.	2022	PN-III-P4-ID-PCE-2020-0371	MANGALAGIU Ionel, prof. univ. dr.	Dezvoltarea unei noi generatii de agenti antimicrobieni cu schelet hybrid azaheterociclic prin metode ecologic prietenoase	2021-2023	380,000 RON
6.	2022	PN-III-P4-ID-PCE-2020-0818	GHINEȚ Alina, Dr. habil.	Liganzi P2X7R ca agenți terapeutici potențiali pentru tratamentul bolilor inflamatorii cronice ale intestinului și ale cancerului aferent	2021-2023	360,450.17 RON
7.	2022	PN-III-P4-ID-PCE-2020-1385	PUI Aurel, prof.univ. dr.	Nanoreactoare fotocatalitice inovative de tip miez/manta@gol@manta	2021-2023	409,089.87 RON
8.	2022	IES/R3/203157	IGNAT Maria, Lect.univ.dr.	Understanding graphene based electronic memory devices, Collaboration agreement between De Montfort University (England and Wales) and UAIC, Funder: The Royal Society	2021-2023	-
9.	2022	COST Action CA18220 Working Group: WG2, WP3	IGNAT Maria, Lect.univ.dr.	European network of FURan based chemicals and materials FOR a Sustainable development (FUR4Sustain)	2019-2024	-
<b>2023</b>						
1.	2023	PN-III-P4-ID-PCE-2020-0371	MANGALAGIU Ionel, prof. univ. dr.	Dezvoltarea unei noi generatii de agenti antimicrobieni cu schelet hybrid azaheterociclic prin metode ecologic prietenoase	2021-2023	220,295 RON

2.	2023	PN-III-P4-ID-PCE-2020-0818	GHINETȚ Alina, Dr. habil.	Liganzi P2X7R ca agenți terapeutici potențiali pentru tratamentul bolilor inflamatorii cronice ale intestinului și ale cancerului aferent	2021-2023	344,425 RON
3.	2023	PN-III-P4-ID-PCE-2020-1385	PUI Aurel, prof.univ. dr.	Nanoreactoare fotocatalitice inovative de tip miez/manta@gol@manta	2021-2023	343,960 RON
4.	2023	IES/R3/203157	IGNAT Maria, Lect.univ.dr.	Understanding graphene based electronic memory devices, Collaboration agreement between De Montfort University (England and Wales) and UAIC, Funder: The Royal Society	2021-2023	-
5.	2023	COST Action CA18220 Working Group: WG2, WP3	IGNAT Maria, Lect.univ.dr.	European network of FURan based chemicals and materials FOR a Sustainable development (FUR4Sustain)	2019-2024	-