



RESEARCH & SPONSORED
PROGRAMS ADMINISTRATION
LAMAR UNIVERSITY

Annual Report of Research Activities

Fiscal Year 2022

(September 1, 2021 - August 31, 2022)



Office of Research & Sponsored Programs Administration

January 31, 2023

LAMAR UNIVERSITY, BEAUMONT, TEXAS, USA

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The Office of Research and Sponsored Programs Administration (ORSPA) presents the annual report documenting the internal and external grant activities and faculty publications in the peer-reviewed literature at Lamar University (LU) in Fiscal Year 2022 (FY22). The records documented in this report represent the research and grant efforts from September 1, 2021, to August 31, 2022. The publications are those published in journals listed by major index systems during calendar year 2022.

External Grant Efforts and Awarded Funds

In FY22, LU submitted ninety (90) external grant applications. The total requested funds were \$42,115,040, with awarded funds of \$6,011,879 for 39 applications. Table 1 compares external grant performance from FY19 to FY22. Compared to FY21, the received external funds in FY22 show 49% growth. The number of submitted and funded applications reduces slightly, while the average funded level of awarded projects grows by 60%. As of January 30, 2023, there are 10 applications submitted in FY22 pending on funding decisions. The pending requests total \$3,691,955.

Table 1: Comparison of External Grant Performance – FY19 to FY22

	FY19	FY20	FY21	FY22*
No. of Submitted Applications	62	90	105	90
No. of Awards	29	38	42	39
Awarded Funds	\$ 1,277,370	\$ 2,145,691	\$ 4,046,553	\$ 6,011,879

*: As of January 30, 2023, there are 10 applications totaling \$3,691,955 pending on funding decision.

Grant Efforts and Awards by Academic College and Department

Figure 1 shows the amount of funds requested and received by the colleges and LU’s administrative offices and research centers. The College of Arts and Sciences leads among the academic colleges in the amount of awarded funds (\$2.1M), followed by the College of Business (\$0.80M), the College of Education and Human Development (\$0.46M), the College of Engineering (\$0.19M) and the College of fine Arts and Communications (\$0.088M). One notable growth is by the interdisciplinary research centers and administrative offices (\$2.4M), particularly the Center of Resiliency. In addition to the grant efforts, there are three community project requests submitted to the US Congress and one direct spending request submitted to the US Senate. These congressional requests total \$4.25M, which will be reported separately upon approval.

Table 2 shows the breakdown of external funds requested and received by the academic departments in FY22. Twenty-three (23) departments submitted external grant applications with various levels of success. Table 5 lists all submitted applications in FY22 by principal investigator (PI), department, college, funding agency, and award status (yes, no, or pending).

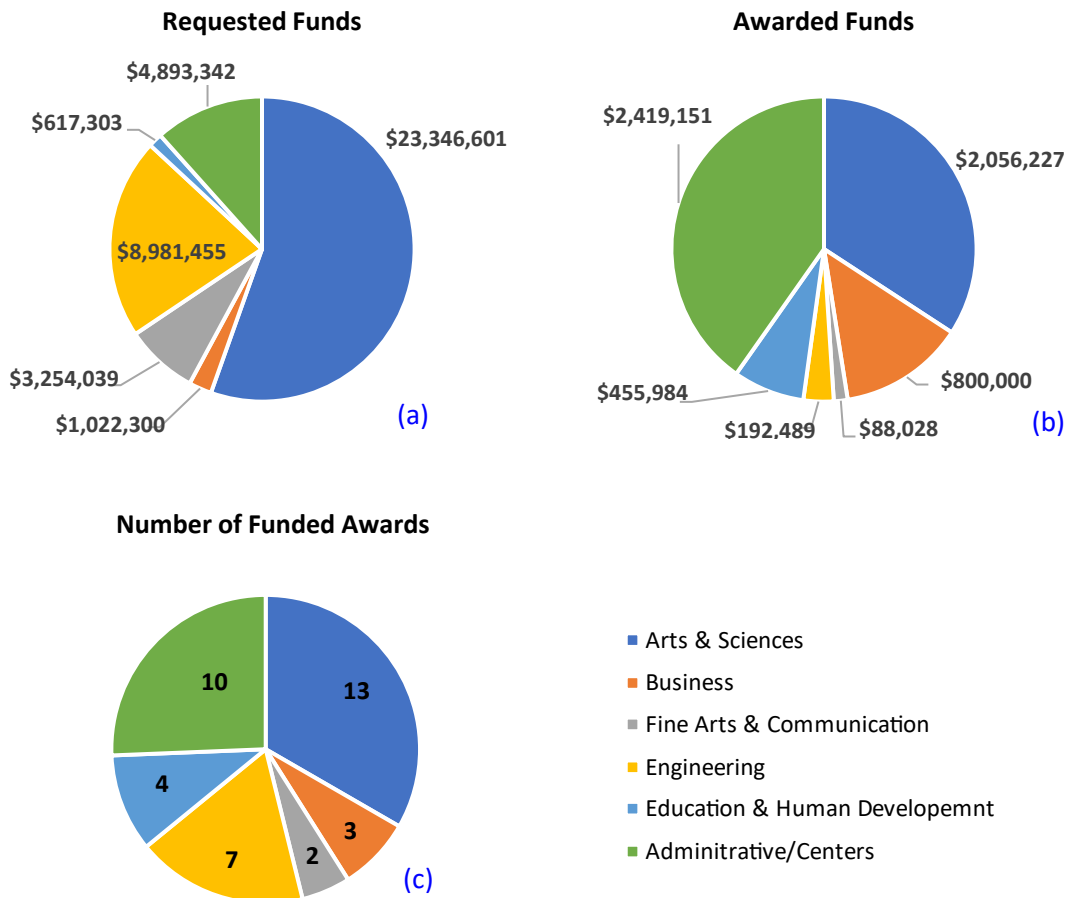


Figure 1. Amount of external funds (a) requested, and (b) received by college and LU administrative offices/centers in FY22. Chart (c) shows the number of funded awards.

Internal Grant Awards and Departmental Research Activities

The internal grant awards supported by the Center for Advances in Port Management (CAPM), the Center for Midstream Management & Science (CMMS), the Center for Resiliency (CfR), Texas Air Research Center (TARC) and Texas Hazardous Waste Research Center (THWRC) are shown in Table 3. These grant programs are intended to develop strategic research capabilities that will lead to future research projects funded by external sponsored programs. In summary, 53 projects were funded by LU internal grant programs, totaling \$1,754,543. The list of the internally supported projects is shown in Table 6.

Departmental research programs supported through faculty start-ups and research payments and by the academic colleges and research centers are listed in Table 4. The details of processed EPAF (electronic personnel action form) payments are listed in Table 7. In total, 45 payments were made, amounting to \$377,678.

Table 2: Statistics of college/department efforts and received external grants in FY22

College	Department	No. of Proposals	Total Funds Requested	No. of Awards	Awarded Funds
Arts & Sciences (27 projects)	Biology	7	\$1,191,209	2	\$50,992
	Chemistry	1	\$249,682	1	\$249,682
	Earth & Space Science	2	\$165,000	0	-
	Computer Science	2	\$169,992	0	-
	Nursing	5	\$17,694,536	3	\$1,091,852
	Physics	6	\$3,706,181	3	\$499,789
	Social Work/Criminal Justice	2	\$118,247	3	\$148,979
	Mathematics	2	\$51,754	1	\$14,933
Business (5 projects)	Information Systems	1	\$450,000	1	\$420,000
	Construction Management	3	\$604,626	1	\$5,000
	Finance and Economics	1	\$375,000	1	\$375,000
Education & Human Development (5 projects)	Pedagogy/Teacher Education	1	\$100,000	1	\$100,000
	Educational Leadership	3	\$355,984	3	\$355,984
	Nutrition, Hospitality & Human Services	1	\$161,319	0	-
Engineering (24 projects)	Chemical/Biomolecular Engineering	6	\$363,482	2	\$27,103
	Civil/Environmental Engineering	6	\$3,303,499	2	\$126,886
	Electrical Engineering	3	\$946,019	0	-
	Industrial Engineering	3	\$2,551,160	1	\$25,000
	Mechanical Engineering	6	\$1,817,295	2	\$13,500
Fine Arts and Communication (8 projects)	Speech & Hearing Sciences	2	\$1,734,377	0	-
	Communications	1	\$2,000	1	\$2,000
	KVLU	1	\$86,028	1	\$86,028
	Deaf Studies & Deaf Education	4	\$1,431,634	0	-
Admin/Centers		21	\$4,893,342	10	\$2,419,151
TOTAL		90	\$42,522,366	39	\$6,011,879

Table 3. Internal grant awards funded by LU Centers in FY22

	No. of Projects	Funded Amount
CAPM	6	\$169,367
CfR	31	\$1,002,509
CMMS	11	\$481,306
TARC	3	\$50,441
THWRC	2	\$50,920
Total	53	\$1,754,543

Table 4. Departmental research supported by LU centers and academic colleges in FY22

	No. of EPAFs Processed	Funded Amount
CAPM	3	\$80,128
CAWAQ	1	\$1,287
CMMS	1	\$38,616
CfR	1	\$25,247
CoE	3	\$16,071
CoAS	19	\$63,000
CoB	17	\$153,329
Total	45	\$377,678

Undergraduate Research

In FY22, the Office of Undergraduate Research (OUR) supported a total of 27 projects including 14 OUR awards and 13 Summer Undergraduate Research Fellowship (SURF) projects, with a funding level from \$1,000 (OUR grants) to \$6,500 (SURF) per project and \$500 travel support for students to present their work in conferences. The list of student projects and faculty mentors is shown in Table 8.

Peer-reviewed Publications in Indexed Journals in 2022

In calendar year 2022, LU faculty members published 184 peer-reviewed articles in journals included in the Science Citation Index Expanded (SCIE), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (AHCI) and Emerging Sources Citation Index (ESCI). The top 20 disciplines where the articles are published in are shown in Figure 2 (number of publications shown in each box). The full list of the publication is included in Appendix I.



Figure 2. Top 20 disciplines of LU faculty's peer-reviewed publications in 2022

Table 5: List of college/department external grant efforts and awarded funds in FY22

Dept	PI	Co-PIs	Project Title	Agency	Requested	Status
College of Arts & Sciences						
Biology	Vasefi, Maryam		mGluR5 and NMDA Receptor Crosstalk in Alzheimer's Disease	US Department of Health and Human Services	\$199,095	No
Biology	Vasefi, Maryam		mGluR5 and NMDA receptor crosstalk in Alzheimer's Disease – revised resubmission	US Department of Health and Human Services	\$199,039	Pending
Biology	Vasefi, Maryam	Selvaratnam, T.; Kucknoor, A.; Lian, I.; Henry, J.	MRI: Acquisition of a Fluorescent Microscope at Lamar University	National Science Foundation	\$300,000	No
Biology	Lian, Ian		Identification of Novel Hippo-Pathway Chemical Inhibitor for Targeted Cancer Therapies	The Welch Foundation	\$243,044	No
Biology	Hoch, Matthew		Sediment coring in the Sabine Neches waterway cut-off for metals analyses II	Tubal-Cain Industries, Incorporated	\$7,992	Yes
Biology	Vasefi, Maryam		mGluR5 and NMDA receptor crosstalk in Alzheimer's Disease	US Department of Health and Human Services	\$199,039	No
Biology	Kucknoor, Ashwini		Texas Beach Watch	Texas General Land Office	\$43,000	Yes
Chemistry	Twagirayezu, Sylvestre		Rotational dynamics of perfluorinated carboxylic acid in the presence of helical chirality	National Science Foundation	\$249,682	Yes
Computer Science	Wang, Sujing	Andrei, S.; Xu, Q.; Thibodeaux, T.	Texas Workforce Commission (TWC) Governor's Summer Merit Program	Texas Workforce Commission	\$70,000	No
Computer Science	Zhang, Jing		Improving the understanding of flood impacts on coastal wetlands in the northern area of the Gulf of Mexico	US Department of Energy	\$99,992	No
Earth Space Science	Pujols, Edgardo		Thermal and maturation history of Late Mesozoic and Cenozoic clastic and carbonate basins in western and central Puerto Rico	American Chemical Society	\$55,000	No

Earth Space Science	Amer, Reda		Algorithm development to define wetland loss and gain in the Mississippi Delta River Phase II: Basin Scale and Implications for Coastal Restoration	NASA	\$110,000	No
Mathematics	Couch, P		Mathematical puzzle programs challenge	Southern Connecticut State University	\$36,821	No
Mathematics	Fowler, Jennifer (prior Jeremy Alm)	Stefan, A.	Accelerating credentials of purpose and value planning: postsecondary programs	Texas Higher Education Coordinating Board	\$14,933	Yes
Nursing	Stinson, Cynthia		Nursing shortage reduction program	Texas Higher Education Coordinating Board	\$182,412	Yes
Nursing	Chisholm, LeAnne		LU interprofessional rural health literacy and chronic care connect through distance education and telemedicine	US Department of Agriculture	\$234,976	Yes
Nursing	Stinson, Cynthia		Incubator to cultivate medical pioneers in SE/East TX	US Department of Commerce	\$16,460,000	No
Nursing	Robinson, Ruthie		Strengthening a regional incubator for future nursing faculty	US Department of Health and Human Services	\$674,464	Yes
Nursing	Stinson, Cynthia		Paving pathways for nursing entrepreneurs in Southeast and Deep East Texas	US Department of Commerce	\$142,684	No
Physics	Romashets, Evgeny		Cedar: Euler potentials for field-aligned and shell currents in the ionosphere.	National Science Foundation	\$219,903	Yes
Physics	Sen, Cengiz		LEAPS-MPS: Study of d0-Magnetism in Realistic Model Hamiltonians using Monte-Carlo Simulations	National Science Foundation	\$149,863	No
Physics	De La Madrid, Rafael	Cole, P.	Gadolinium-loaded detectors for neutron detection in dark matter searches	US Department of Energy	\$20,688	Yes
Physics	Bahrim, Bogdana		Local Effects During Negative Ion Collisions with Adsorbate-Covered Noble Metal Surfaces	The Welch Foundation	\$219,973	No
Physics	Bahrim, Cristian	Thibodeaux, T.; Comer, P.	McNair Scholars Program (Yr 1 of 5)	US Department of Education	\$236,964	Yes

Physics	Cole, Philip	De La Madrid, R.	Detection of Light Dark Matter Particles with High-Intensity Electron Beams at DarkMESA through Nuclear-Recoil Signatures in the BDx-DRIFT Detector	US Department of Energy	\$2,858,790	No
Sociology Soc Work Crim Just	Gummelt, Ginger	Wright, L.	Social determinants of health: Jefferson, Liberty, Hardin, and Orange counties	Episcopal Health Foundation	\$41,051	Yes
Sociology Soc Work Crim Just	Gage, Margot		Historical women veterans and law enforcement officers in Texas	Summerlee Foundation	\$8,500	Yes
Sociology Soc Work Crim Just	Clavijo, Angela		Child welfare enhancement program	Title IV E Training Program	\$68,696	Yes \$99,428

College of Business

Construction Management	Kim, Minkyum	Hwang, S.	Development of advanced construction lab	TEXO Foundation	\$5,000	Yes
Construction Management	Luo, Zhe	Liu, X.	VR Headset Grant	Unity	TBD (initial conception)	Pending
Construction Management	Hwang, Seok	Zhang, J.; Zhou, J.; Lou, H.; Tokgoz, B.	Interdisciplinary collaboration and university/Industry partnership of innovating undergraduate midstream education	National Science Foundation	\$599,626	No
Economics & Finance	Slaydon, James		Covid-19: threat and opportunity for economic resiliency of southeast Texas	US Department of Commerce	\$375,000	Yes
Information Syst and Analysis	Bandyopadhyay, Kakoli	Zhao, Y.	Accelerating credentials of purpose and value planning: data analytics	Texas Higher Education Coordinating Board	\$450,000	Yes, \$420,000

College of Education & Human Development

Educational Leadership	Harvey, Thomas		Elite field observation experience	Academic Partnerships Faculty Research Grant	\$7,755.00	Yes
Teacher Education	Singh, Mamta		Reskilling 2 amendment	Texas Higher Education Coordinating Board	\$100,000	Yes

Educational Leadership	Slaughter, Jody	Spina, R.	Renewing educator preparation	US PREP national center	\$298,229	Yes
Educational Leadership	Slaughter, Jody		Educator preparation planning grant	Texas Higher Education Coordinating Board	\$50,000	Yes
Nutrition Hosp and Human Serv	Killough, Jill	Shows, A.; May, K.	Work-based learning opportunity for LU Dietetics Students	Texas Higher Education Coordinating Board	\$161,319.00	No

College of Engineering

Chemical Engineering	Chen, Daniel		Oxy-combustion kinetic data analysis and demo unit modeling	Carbon Ventures, Limited Liability Corporation	\$13,103	Yes
Chemical Engineering	Jeffryes, Clayton		Ammonium conversion	Sulfurchem Limited Liability Corporation	\$14,000	Yes
Chemical Engineering	Xu, Qiang	Lou, H.; Wang, S.	Accumulative machine learning with real-time modification of soft sensor development in the general NGL processing system	Camille & Henry Dreyfus Foundation	\$99,824	No
Chemical Engineering	Xu, Qiang	Lou, H.; Cai, T.	Feasibility study on water-wash and dehydration operation improvement	Energy Transfer, Inc.	\$46,555	No
Chemical Engineering	Benson, Tracy	Tokgoz, B.; Brake, N.	Building the Talent Pipelines for Energy Transition Industries: From Low-Income Students to Next-Generation Engineers	National Science Foundation	\$100,000	No
Chemical Engineering	Lou, Helen	Cai, T.; Zhang, J.; Liu, X.; Liu, X.	Texas Advanced Manufacturing and Simulation Center for Energy and Critical Manufacturing Industry	University of Texas - Arlington	\$90,000	No
Civil Engineering	Qian, Qin	Sun, B.; Zhang, J.; Sun, F.	Identify potential bmp tools to reduce bacteria loading in the Neches River	Texas General Land Office	\$99,886	Yes
Civil Engineering	Wu, Xing	Li, Y.; Hamidi, M.	Center for Transportation System Resilience and Sustainability	US Department of Transportation	\$1,800,000	Pending

Civil Engineering	Brake, Nicholas	Wu, Xing	Large-scale CoPe: CIRCLE-inG: AI and Modeling for Collective Impact on Resilient Communities through Social Learning and Equity in the Gulf	University of Texas - Austin	\$999,997	No
Civil Engineering	Haselbach, Liv	Tokgoz, B.	NSF CoPE Focus: On the Move	University of Texas - Austin	\$306,628	No
Civil Engineering	Selvaratnam, Thinesh		A Carbon Capture System for Algae Cultivation and Bioproducts Production using Hybrid Solar Lighting	National Science Foundation	\$69,988	No
Civil Engineering	Kim, Yong Je		DesignSafe-supported REU cohort	National Science Foundation	\$27,000	Yes
Electrical Engineering	Barzegaran, Reza		Variable Flux Axial Motor	Jacobi Motors	\$49,985	No
Electrical Engineering	Barzegaran, Reza		Collaborative Research: Distributed Machine Learning-based Restoration Algorithm for Resilience Enhancement of Power Grid during Natural Disasters	National Science Foundation	\$251,253	No
Electrical Engineering	Tcheslavski, Gleb	Yoo, H.; Myler, H.; Barzegaran, R.; Andrei, S.	Assessing the Impact of Artificial Intelligence and Immersive Technology on Student Learning in a Hybrid Engineering Curriculum	National Science Foundation	\$644,781	No
Industrial Engineering	Bradley, Kelley	Tokgoz, B.; Curry, J.; Marquez, A.; Tokgoz, C.	DoD STEM	San Jacinto College	\$1,763,347	No
Industrial Engineering	Bradley, Robert	Fan, X.; Henry, J.; Bernazzani, P.; Vasefi, M.	MRI: Acquisition of a Two-Photon 3D Stereolithography System	National Science Foundation	\$762,813	No
Industrial Engineering	Craig, Brian		2022 amendment to gulf research project	American Bureau of Shipping	\$25,000	Yes
Mechanical Engineering	Fan, Zhe		Mechanical tolerance of bolts in reciprocating motions	Arkema Incorporated	\$3,500	Yes
Mechanical Engineering	Yao, Chun-Wei		Superhydrophobic materials for biomedical applications	Biomedical Research Lab	\$10,000	Yes

Mechanical Engineering	Fan, Xuejun		Co-Design for heterogeneous integration	National Science Foundation	\$85,350	No
Mechanical Engineering	Fan, Xuejun	He, P.	SHINE - Center for Scalable and Heterogeneous Integration of Nano Electronic-systems	Sub-Award to UC-Santa Barbara	\$1,250,000	No
Mechanical Engineering	Fan, Zhe		Effects of chemical complexity on environment-assisted cracking of high-entropy alloys	The Welch Foundation	\$297,925	No
Mechanical Engineering	He, Ping	Fan, X.; Zhou, J.; Li, X.; Yoo, H.	Developing Metaverse Lab (Meta-Lab) for Undergraduate Mechanical Engineering Education	National Science Foundation	\$170,520	No

College of Fine Arts & Communication

Communications	Yao, Qingjiang		Social media analytics: course development	HubSpot, Incorporated	\$2,000	Yes
KVLU	Balentine, Byron		Public radio station: community service	Corporation for Public Broadcasting	\$86,028	Yes
Speech & Hearing	Azios, Jamie		Transactional success in the texting exchanges of people with aphasia	National Institutes of Health	\$155,305	No
Deaf Studies and Deaf Ed	Clark, Mary	Greene-Woods, A.	American Sign Language curriculum guided viewing	Subaward by Technical Education Research Centers (TERC)	\$398,286	Pending
Deaf Studies and Deaf Ed	Greene-Woods, Ashley	Clark, M.	Implementing data- and evidence-based preparation actions of special education, early intervention, and related services leadership personnel	US Department of Education	\$934,630	Pending
Deaf Studies and Deaf Ed	Musyoka, Millicent	Doe, R.	Deaf education teacher experiences and interactions during and after covid-19 school lock down	The Spencer Foundation	\$48,719	No
Speech & Hearing	Morris, Lekeitha	Manchaiah, V.	Success with Stories: A Transformative Approach to Parent Training	Institute of Education Sciences	\$1,579,072	No
Deaf Studies and Deaf Ed	Musyoka, Millicent	Morris, L.	Promoting Racial Equity: Diversifying the workforce of professionals serving children who serve children who are Deaf and hard of hearing	The Spencer Foundation	\$49,999	No

Administrative Offices & Centers

Enrollment Mgmt & Marketing	Brazzle, Reginald		Stabilization fund program: transfer grant	Texas Higher Education Coordinating Board	\$125,000	Yes
Enrollment Mgmt & Marketing	Davila, Victor		Accelerating student success of underserved populations in Southeast Texas	Texas Higher Education Coordinating Board	\$50,000	Yes
Enrollment Mgmt & Marketing	Davila, Victor/Deidra Mayer		At-risk students at comprehensive regional universities	Texas Higher Education Coordinating Board	\$749,651	Yes
Planning and Assessment	Hefner-Babb, Theresa		Accelerating credentials of purpose and value planning: postsecondary programs	Texas Higher Education Coordinating Board	\$50,000	Yes
Institutional Research and Reporting	Greg Marsh		Reporting modernization program	Texas Higher Education Coordinating Board	\$50,000	Yes
Community Relations	Bellard, Norman		Entergy VITA	Entergy Community Grant Program	\$16,500	No
Center for Water & Air Quality	Jeffryes, Clayton	Hoch, M.; Selvaratnam, T.	"Green" synthesis of biodegradable copper oxide nanoparticles to combat bacterial panicle blight in rice	Environmental Protection Agency	\$25,000	Pending
Center for Water & Air Quality	Jeffryes, Clayton	Hoch, M.	Antibacterial Nano-"Trojan Horse" to Combat Bacterial Panicle Blight in Rice	The Welch Foundation	\$287,200	No
SBDC	Mulcahy, David		Small Business Development Center - 2022	University of Houston	\$131,500	Yes
TMAC-SE	Venkataratnam, Ramachandran		Texas Manufacturing Assistance Center – Southeast, Hurricane Laura Assistance Grant	National Institute of Standards and Technology	\$20,000	Yes
TMAC-SE	Venkataratnam, Ramachandran		Texas Manufacturing Assistance Center – Southeast 2022	National Institute of Standards and Technology	\$233,000	Yes
TMAC-SE	Palanki, Srinivas		Development of Simulation Models for Natgasoline's Methanol Process	Natgasoline, LLC	\$40,000	No

Center for Resiliency	Haselbach, Liv	Lin, S.; Cai, T.; Jeffryes, C.; Qian, Q.; Brake, N.; Hoch, M.	Southeast Texas Urban Integrated Field Laboratories: equitable solutions for communities caught between floods and air pollution (Yr 1 of 5)	US Department of Energy	\$1,000,000	Yes
Center for Resiliency	Haselbach, Liv	Selvaratnam, T.; Jeffryes, C.	Tier 1 UTC: Center for EcoSmart Transportation Infrastructure	US Department of Transportation	\$100,000	Pending
Center for Resiliency	Haselbach, Liv	Brake, N.; Kim, Y.	TriDurLE National Center for Transportation Infrastructure Durability & Life-Extension	US Department of Transportation	\$200,000	Pending
Center for Resiliency	Annette Hernandez	Wu, X.; Kim, Y.; Craig, B.	Southwest transportation alliance for research center	US Department of Transportation	\$200,000	Pending
Center for Resiliency	Qian, Qin	Lou, H.	Enhancing resilience of energy and water supply infrastructures against catastrophic coastal flooding along the Texas Coast	Texas A&M University - Sea Grant	\$105,000	Pending (Rcmd. for funding)
CMMS	Lou, Helen		Supporting cardinal energy activities	Halliburton Company	\$16,065	Yes, \$10,000
CMMS	Chen, Daniel	Lou, H.; Venta, H.; Sargsyan, G.;	Gulf Coast Energy Transition Fund	US Department of Commerce	\$749,999	No
CICE	Natarajan, Vivek	Bradley, K.	Creation of Entrepreneurial Institute's Acceleration, Incubation, and Commercialization Center at Lamar University.	US Department of Commerce	\$744,427	No

Table 6: List of internal research grants awarded in FY22

Department	Investigator	Co-PIs	Project Title	Sponsor	Award
Industrial Engineering	Hamidi, Maryam	Wu, X.	Texas commodity flow data web tool development	CAPM	\$30,000
Chemical Engineering	Lin, Sidney		Protection of marine steel structures by calcareous electrodeposition	CAPM	\$30,000
Industrial Engineering	Liu, Xinyu	Marquez, A.; Li, X.; Zhou, J.	Development of a modeling framework for risk-Informed asset management of the Port of Beaumont	CAPM	\$29,109
Industrial Engineering	Marquez, Alberto	Zaloom, V.	A simulation approach to evaluate current port operations and optimize future operations through effective port asset management during construction and operations	CAPM	\$21,733
Electrical Engineering	Wang, Ruhai		Development of cyber security system for port infrastructure	CAPM	\$30,000
Civil Engineering	Wu, Xing	Hamidi, M.	Quantitative Analysis: Waterway traffic delay and channel capacity	CAPM	\$28,525
Electrical Engineering	Barzegaran, Reza		Resilience analysis and enhancement of the power grid during disasters using machine learning-based restoration algorithms	CfR	\$12,000
Sociology Soc Work Crim Just	Chang, C-F	Fagen, J.; Gage, M.; Harden, B.; Garcia, J.	Recovery and Resilience Academy	CfR	\$14,730
Sociology Soc Work Crim Just	Chang, C-F	Gage, M.; Harden, B.; Lin, C.; Broom, R; Roebuck, K.	Recovery and Resilience Academy	CfR	\$51,177
Physics	Cole, Philip	Jordan, J.	Tunable laser imaging: Detecting methane leaks in soils	CfR	\$10,000
Communications	Diddi, Pratti	Saleem, A.	The information impact of the ability for communities to build resiliency during extreme weather events	CfR	\$11,760
Speech & Hearing	Dockens, Ashley	Thibodeaux, T.; Chislom, L.; F.; Palmer, T.	Supporting Resiliency in Rural Health: Telehealth, telemedicine, and distance education	CfR	\$49,910
Mechanical Engineering	Fan, Xuejun	Barzegaran, R.	Multidimensional reliability, resiliency and aging modeling and analysis of components in energy systems	CfR	\$10,000

Communications	Favors, Andre	Segura, C.	Mental Health recommendations and interventions for survivors of repeated environmental disasters in Southeast Texas and the Gulf Coast Region	CfR	\$7,956
Sociology Soc Work Crim Justice	Gummelt, Ginger		Partnerships for resilience interventions and mental health effectiveness	CfR	\$25,000
Center for Resiliency	Haselbach, Liv	Brake, N.; Wu, X.; Amer, R.; Kruger, D.; Qian, Q.; Sun, F.	Flood Coordination Study	CfR	\$300,000
Biology	Hoch, Matthew	Amer, R.	Preliminary assessment of potential pre- and post-coastal restoration to incentivize industry actions	CfR	\$14,000
Biology	Hoch, Matthew	Luo, Z.; Liu, X.; Harden, B.; Silvy, E.; McCullough, J.; Qian, Q.	North Pleasure Island Reconstruction: Coastal sociological-ecological restoration group and pilot project	CfR	\$51,818
Construction Management	Kim, Minkyum		Southeast Texas impacts of extreme flooding events: Developing a framework for measuring transportation infrastructure resiliency	CfR	\$12,628
Nursing	Knight, Stacey	Robinson, R.; Stinson, C.	No Visitors: Family perceptions of separation of hospitalized loved ones	CfR	\$5,270
Industrial Engineering	Li, Yueqing	Wu, X.; Tokgoz, B.	Improve resiliency of transportation system in severe weather using connected vehicle environments	CfR	\$14,000
Biology	Lian, Ian		Real-time waterborne pathogen detection with mobile electronics	CfR	\$5,000
Communications	Malick, Stephan		Enhancing communication response for the Residents Information Program	CfR	\$10,849
Speech & Hearing	Morris, LeKeitha	Harn, M.	Success with Stories: Integration of a digital program into Head Start	CfR	\$19,356
Biology	Pyne, Matthew	Christensen, A.	The effect of catastrophic Neches River flooding on the brackish water clams	CfR	\$6,000
Business	Slaydon, James	Venta, H.; Sargsyan, G.; Colon, Ri.	Threat and Opportunity of Covid-19 for economic resiliency in construction and real estate due	CfR	\$21,722

Computer Science	Stefan, Andrei		Data analytics and predictions of newly installed weather stations	CfR	\$10,000
Computer Science	Sun, Bo	Zhang, J.; Selvaratnam, T.; Qian, Q.; Sun, F.	Enhance water monitoring infrastructure with IoT-based wireless sensor and deep learning neural networks	CfR	\$50,718
Educational Leadership	Thibodeaux, Tilisa	Dockens, A.; Chislom, L.; Palmer, Tr.; Harapnuik, D.	Promoting resiliency in rural schools and communities through distance education programming, resources, and opportunity	CfR	\$51,236
Industrial Engineering	Tokgoz, Berna	Zhang, J; Hwang, S	Increasing Oil and Gas Pipeline Industry Resiliency using drones and image processing algorithms	CfR	\$14,000
Industrial Engineering	Tokgoz, Berna	Selvaratnam, T; Pyne, M; Williams, B; Hwang, S.; Gummelt, G.; Boudreaux, K.	Community Resilience Indicator System: Developing a community resiliency framework in response to natural disasters	CfR	\$50,000
Biology	Vasefi, Maryam	Makki, K.; Knight, S.; Gummelt, G.; Shackelford, S.	Increased risk of dementia/Alzheimer's disease after a disaster	CfR	\$20,000
Service Mgmt & Mktg	Weeks, Kelly	Safa, M.	Oil Price uncertainty leads to strategic resiliency responses and adaptations for the offshore industry	CfR	\$12,695
Counseling	Weinbaum, Rebecca		Partnerships for resilience interventions and mental health effectiveness	CfR	\$25,000
Counseling	Weinbaum, Rebecca	McGough, K.	I'm Stronger Today: Resiliency and coping curriculum grades 2-5	CfR	\$25,000
Political Science	Williams, Brian	Gillis, B.	Local government resiliency: Southeast Texas and the Gulf Coast	CfR	\$40,000
Chemical Engineering	Xu, Qiang	Wang, S.	Maximize resiliency identification of the general refinery supply chain under multi-disaster impacts in the Gulf Coast Region	CfR	\$50,684
Chemical Engineering	Chen, Daniel	Xu, Q.; Sargsyan, G.	Integrated Allam Cycle-LNG Complex: Greenhouse gas reduction and efficient energy supply	CMMS	\$50,000

Physics	Cole, Philip	Jordan, J.	Methane leak detection in soil	CMMS	\$50,000
Mechanical Engineering	Fan, Zhe		Oil and gas pipeline corrosion and friction resistance of advanced polymer coatings	CMMS	\$28,936
Center for Water & Air Quality	Jeffryes, Clayton		Demulsification Strategy: Microwave-assisted, four-phase crude oil	CMMS	\$50,000
Chemical Engineering	Lin, Sidney	Lou, H.	Numerical and electrochemical analyses of pipeline corrosion in the midstream industry	CMMS	\$50,000
Industrial Engineering	Liu, Xinyu	Li, X. & Zhou, J.	LNG Pipeline: Holistic mitigation approach of water hammer	CMMS	\$49,909
Economics & Finance	Sargsyan, Gevorg	Natarajan, V.	The three stages of the oil and gas Industry: Analysis of risk management practices in the US, UAE, Saudi Arabia, and Russia	CMMS	\$27,461
Chemical Engineering	Cai, Tianxing	Lin, S.	Assessment of corrosion development	CMMS	\$50,000
Computer Science	Wang, Sujing	Xu, Q.; Chen, D.	NGL Fractionation Train: Digital twin development for real-time optimization and control	CMMS	\$25,000
Chemical Engineering	Xu, Qiang	Lou, H.; Wang, S.	NGL fractionation system: Sensor development for water wash unit	CMMS	\$50,000
Mechanical Engineering	Yao, Chun-Wei		Anti-corrosive superhydrophobic top coating testing and analysis	CMMS	\$50,000
Chemical Engineering	Chen, Daniel		CFD Modeling of Allam Combustors for Carbon Capture and Emissions Minimization	TARC	\$6,000
Chemical Engineering	Lin, Sidney		Numerical Simulation of Diffusion in Unexpected Chemical Release	TARC	\$6,000
Chemistry and Biochemistry	Twagirayezu, Sylvestre		Online Monitoring of SO ₂ and Its Atmospheric Fate by Molecular Rotational Resonance Spectroscopy	TARC	\$38,441
Civil Engineering	Selvaratnam, Thinesh		Removal of heavy metals from municipal landfill leachate using extremophilic algal strains	THWRC	\$25,500
Chemical Engineering	Xu, Qiang		Onsite water treatment during oil and gas extraction: Design of a mobile integrated flare gas recovery and desalination system	THWRC	\$25,420

Table 7: Faculty research support by research centers and academic colleges

Department	Faculty	Center/ College	Funding Source	Payment Amount	EPAF Description
Industrial Engineering	Hamidi, Maryam	CAPM	Center	\$32,461	Summer Faculty Research
Industrial Engineering	Clott, Christopher	CAPM	Center	\$26,667	Summer Faculty Research
Business Law	Baldo, Melissa	CAPM	Center	\$21,000	Summer Faculty Research
Chemical Engineering	Jeffryes, Clayton	CAWAQ	Center	\$1,287	Director of Center of Water & Air Quality
Chemical Engineering	Lou, Helen	CMMS	Center	\$38,616	Associate Director of Research of CMMS
Civil/Env. Engineering	Haselbach, Liv	CfR	Center	\$25,274	Director of Center for Resiliency
Civil/Env. Engineering	Uddameri, Elma	COE	Departmental	\$2,604	Parsimony and Persistence – optimization of soil moisture sensor network
Civil/Env. Engineering	Qin, Qian	COE	Departmental	\$5,467	Flood Coordination Study Assigned tasks: Report on water quality historical data analysis HEC-RAS hydrodynamic and sediment transport model; develop deep learning neural network and multiply linear regression model tool.
Mechanical Engineering	Doranga, Sushil	COE	Departmental	\$8,000	Octavo System's project
Biology	Vasefi, Maryam	COAS	Departmental	\$500	Spring 2022 Research
Biology	Yoder, Randall	COAS	Departmental	\$5,000	Summer Research Fellowship
Chemistry	Chandrasekaran, Perumalreddy	COAS	Departmental	\$2,500	Summer Research Fellowship
Chemistry	Twagirayezu, Sylvestre	COAS	Departmental	\$2,500	Summer Research Fellowship
English	Hillin, Sara	COAS	Departmental	\$500	Spring 2022 Research
English	Joffe, Sharon	COAS	Departmental	\$5,000	Summer Research Fellowship
English	Oteng, Yaw	COAS	Departmental	\$5,000	Summer Research Fellowship
History	Mengerink, Mark	COAS	Departmental	\$500	Spring 2022 Research
Mathematics	Jensen-Vallin, Jackie	COAS	Departmental	\$5,000	Summer Research Fellowship
Nursing	Chisholm, LeAnne	COAS	Departmental	\$500	Spring 2022 Research
Nursing	Kostandy, Raouth	COAS	Departmental	\$5,000	Summer Research Fellowship

Nursing	Long, Elizabeth	COAS	Departmental	\$5,000	Summer Research Fellowship
Physics	Bahrim, Crisitan	COAS	Departmental	\$5,000	Summer Research Fellowship
Physics	De La Madrid, Rafael	COAS	Departmental	\$5,000	Summer Research Fellowship
Political Science	Easterly, Bianca	COAS	Departmental	\$500	Spring 2022 Research
Political Science	Gregory, Christina	COAS	Departmental	\$5,000	Summer Research Fellowship
Sociology Soc Work Criminal Justice	Garcia, Jesse	COAS	Departmental	\$5,000	Summer Research Fellowship
Sociology Soc Work Criminal Justice	Tsado, Lucy	COAS	Departmental	\$5,000	Summer Research Fellowship
Sociology Soc Work Criminal Justice	Worley, Vidisha Barua	COAS	Departmental	\$500	Spring 2022 Research
Marketing & Management	Karani, Komal	COB	Departmental	\$2,000	One Time Pay for research
Information Systems & Analysis	Zhao, Yu	COB	Departmental	\$12,000	Why do students experience different technostress? Theorizing the impact of self-efficacy on techno-eustress
Information Systems & Analysis	Zhang, Xiao	COB	Departmental	\$1,200	Using Interactive Demonstration in Online Classes Adopting Adobe Captivate
Mechanical Engineering	Fan, Zhe	COE	Departmental	\$15,455	Mechanical and corrosion behavior of high entropy alloys with and without Cr Tasks
Construction Management	Kim, Minkyum	COB	Departmental	\$9,651	CMGT/BO-MAC Contractors, Inc.
Construction Management	Minkyum, Kim	COB	Departmental	\$12,000	Investigation on using water repellants for pothole prevention in asphalt pavement
Economics and Finance	Chen, Chunda	COB	Departmental	\$6,000	Are ESG-committed hotels financially resilient to the COVID-19 pandemic
Economics and Finance	McCullough, John	COB	Departmental	\$12,000	How much the American household is willing to pay for greenhouse gas remediation and will it be enough
Management and Marketing	Weeks, Kelly	COB	Departmental	\$12,000	Operational issues leading to strategic resiliency responses and adaptations of the offshore oil industry
Physics	Ruseva, Marina	COB	Departmental	\$12,000	Proposed Research-Data Analytics case study development in accounting: a pedagogical approach

Information Systems & Analysis	Tovar-Silos, Ricardo	COB	Departmental	\$12,000	Volatility correlation between cryptocurrencies and stock markets
Management and Marketing	Natarajan, Vivek	COB	Departmental	\$9,723	Summer Faculty Research
English and Modern Languages	Ener, Theresa	COB	Departmental	\$3,000	Summer Faculty Research
Information Systems & Analysis	Nelson, Melinda	COB	Departmental	\$3,000	Summer Faculty Research
Information Systems & Analysis	Zhang, Xiao	COB	Departmental	\$10,800	Using Interactive Demonstration in Online Classes Adopting Adobe Captivate
Marketing & Management	Karani, Komal	COB	Departmental	\$12,000	Using Videos and Cases to Enhance Online Classes
Economics & Finance	Slaydon, James	COB	Departmental	\$8,500	Collaborative development of appropriate economic models for regional analysis

Table 8: Projects funded by the Office of Undergraduate Research in FY22

Faculty Advisor	Student/Department	Title	Grant Type
Sargsyan, Gevorg	Taliah Belcher /Accounting & Finance	Impact of militarization on financial & economic growth of developing and highly militarized countries	OUR
Hoch, Matt & Miller, William (Baker Univ)	Angel Flowers /Biology	Population distribution analysis of tardigrades found on Quercus virginiana	OUR
Vasefi, Maryam	Arizbeth Lopez Garcia /Biology	CBD and Alzheimer's disease; Neuroprotection and Desensitization	OUR
Vasefi, Maryam	Caroline LeBlanc /Biology	Glutamate receptor crosstalk in Alzheimer's disease	OUR
Kucknoor, Ashwini	David Matherne /Biology	Characterization of drug resistance genes in cattle pathogen, Tritrichomonas foetus	OUR
Bernazzani, Paul	Ian Sisson/Chemistry	Developing cellulose based nanocomposite as a potential substitute	SURF
Selvaratnam, Thinesh	Melissa Tan/Civil & Env. Engineering	Removal of Heavy Metals from Municipal Landfill Leachate using Galdieria Sulphuraria	SURF
Smith, Zanthia	Corina Mena /Communications	Hispanic/Latinx Students Perceptions of Diversity in Interpreting	OUR
Wang, Sujing	Callan Noak /Computer Science	Analyze COVID-19 Data using Advance Machine Learning Techniques	OUR
Wang, Sujing	Silvana Ochoa /Computer Science	COVID-19 Pandemic's Impact on Education and Students	OUR
Singh, Mamta	Margo Eugenio /Interdisciplinary Studies	Impact of Schools of Choice on Standardized Test Scores & the Achievement Gap	SURF
Singh, Mamta	Tiya Davi /Economics and Finance	Assessing Preservice Teachers' Understanding of Disease and its Spread using Scientific Illustrations and Virtual Labs	OUR
Jordan, Shannon	Ally Tywater /Health & Kinesiology	Rodeo Athletes: A Survey of Injuries and Accessibility to Strength	SURF

Jordan, Shannon	Damaris Thrash /Health & Kinesiology	Effects of Motivational Music on Post-Exercise Recovery	OUR
Bradley, Kelley	Jennifer Arredondo /Industrial Engineering	Exploration of Parameters for Developing a Silicone Nanocomposite Fe-electret	OUR
Bradley, Kelley	Lac Nguyen /Industrial Engineering	An Investigation of Environmentally Friendly Filler for Polymer Nanocomposites.	OUR
Li, Yueqing	Tyler Stuck /Industrial Engineering	The Visual Behavior and Performance of Young Drivers in Construction Zones and Nighttime Driving	OUR
Doranga, Sushil	Jacob William Smith /Mechanical Engineering	Evaluation of Pin Fretting in the Electronic Connectors Using the Vibration Shake	SURF
He, Ping	Kalen Baker /Mechanical Engineering	Molecular Dynamics Research of Sintering Americium-241 for Compact Nuclear Power Supplies	OUR
Romashets, Evgeny & Bahrim, Cristian	David Matherne /Physics	Heliospheric Storms	SURF
De La Madrid, Rafael	Rafael Guitierrez /Physics	Dynamical Wetting and Dewetting in Non-Uniform Solid	SURF
Romashets, Evgeny & Bahrim, Cristian	Kiley Mazdra /Physics	The Physics of Active Longitudes and their impact on Earth	SURF
Kirk, Edythe	Lily Yoder /Psychology	The Effects of Positive Mood and Stereotype Threat on Memory Recall	SURF
Morris, Leiketha	Chloe Smith /Speech & Hearing	Intervention for Child Speech Sound Disorders in YouTube Videos	SURF
Felipe, Lilian	Madeline Doughty /Speech & Hearing	Awareness of Noise-Induced Hearing Loss Among College Band students	SURF
Singh, Mamta	Chaley Cleckley /Teacher Education	Preservice Teachers & Understanding of Genetic Technology	SURF
Singh, Mamta	Margo Eugenio /Teacher Education	Social-Emotional Learning, Culturally Responsive Learning, & Linguistically Responsive Learning	SURF

Appendix I: List of publications by LU faculty in peer-reviewed journals indexed by SCIE, SSCI, AHCI and ESCI in 2022

1. Gu, D. X.; Li, M.; Yang, X. J.; Gu, Y. D.; Zhao, Y.; Liang, C. Y.; Liu, H., An analysis of cognitive change in online mental health communities: A textual data analysis based on post replies of support seekers. *Information Processing & Management* **2023**, *60*, (2).
2. Boujelbene, M.; Goodarzi, M.; Ali, M. A.; Shigidi, I.; Pashameah, R. A.; Homod, R. Z.; Alzahrani, E.; Safaei, M. R., Machine-learning optimization of an innovative design of a Li-ion battery arrangement cooling system. *Journal of Energy Storage* **2023**, *58*.
3. Altuntas, U.; Coker, D.; Yavas, D., Creating tougher interfaces via suture morphology in 3D-printed multi-material polymer composites by fused filament fabrication. *Additive Manufacturing* **2023**, *61*.
4. Zohoori, S.; Roy, U.; Hamidi, M.; Wu, X., Quantifying Wide-Body Vessel Navigation Delay in Narrow Waterways: A Case Study at the Houston Ship Channel. *Journal of Waterway Port Coastal and Ocean Engineering* **2022**, *148*, (4).
5. Zhou, Y.; Wang, R. H.; Yang, L.; Liang, J.; Burleigh, S. C.; Zhao, K. L., A Study of Transmission Overhead of a Hybrid Bundle Retransmission Approach for Deep-Space Communications. *Ieee Transactions on Aerospace and Electronic Systems* **2022**, *58*, (5), 3824-3839.
6. Zhang, B.; Sun, L.; Liu, X.; Liu, Y., AN EVACUATION ROUTE PLANNING APPROACH CONSIDERING INDIVIDUAL RISK UNDER TOXIC GAS RELEASE SCENARIOS. *Environmental Engineering and Management Journal* **2022**, *21*, (4), 661-669.
7. Zachariou, N.; Munevar, E.; Bertram, B. L.; Bydzovsky, P.; Cieply, A.; Feldman, G.; Ilieva, Y.; Nadel-Turonski, P.; Skoupil, D.; Sarantsev, A. V.; Watts, D. P.; Amaryan, M. J.; Angelini, G.; Armstrong, W. R.; Atac, H.; Avakian, H.; Barion, L.; Bashkanov, M.; Battaglieri, M.; Bedlinskiy, I.; Benmokhtar, F.; Bianconi, A.; Biondo, L.; Biselli, A. S.; Bondi, M.; Bossu, F.; Boiarinov, S.; Briscoe, W. J.; Brooks, W. K.; Bulumulla, D.; Burkert, V. D.; Carman, D. S.; Carvajal, J. C.; Celentano, A.; Chatagnon, P.; Chetry, T.; Ciullo, G.; Clark, L.; Cole, P. L.; Contalbrigo, M.; Costantini, G.; Crede, V.; D'Angelo, A.; Dashyan, N.; De Vita, R.; Defurne, M.; Deur, A.; Diehl, S.; Djalali, C.; Dupre, R.; Dugger, M.; Egiyan, H.; Ehrhart, M.; El Alaoui, A.; El Fassi, L.; Eugenio, P.; Fedotov, G.; Fegan, S.; Filippi, A.; Fradi, A.; Gavalian, G.; Gilfoyle, G. P.; Girod, F. X.; Gleason, C.; Golubenko, A. A.; Gothe, R. W.; Griffioen, K. A.; Guidal, M.; Hafidi, K.; Hakobyan, H.; Hattawy, M.; Hayward, T. B.; Heddle, D.; Hicks, K.; Hobart, A.; Holtrop, M.; Ireland, D. G.; Isupov, E. L.; Jenkins, D.; Jo, H. S.; Joo, K.; Keller, D.; Khanal, A.; Khandaker, M.; Kim, A.; Klein, F. J.; Kripko, A.; Kubarovsky, V.; Lanza, L.; Leali, M.; Livingston, K.; MacGregor, I. J. D.; Marchand, D.; Markov, N.; Marsicano, L.; Mascagna, V.; McKinnon, B.; Migliorati, S.; Mineeva, T.; Mirazita, M.; Mokeev, V.; Camacho, C. M.; Neupane, K.; Niccolai, S.; Niculescu, G.; O'Connell, T. R.; Osipenko, M.; Ostrovidov, A. I.; Pandey, P.; Paolone, M.; Pappalardo, L. L.; Paremuzyan, R.; Pasyuk, E.; Phelps, W.; Pogorelko, O.; Price, J. W.; Prok, Y.; Raue, B. A.; Ripani, M.; Ritman, J.; Rizzo, A.; Rosner, G.; Rowley, J.; Sabatie, F.; Salgado, C.; Schmidt, A.; Schumacher, R. A.; Sharabian, Y. G.; Shirokov, E. V.; Shrestha, U.; Sokhan, D.; Soto, O.; Sparveris, N.; Stepanyan, S.; Stoler, P.; Strakovsky, I.; Strauch, S.; Tyson, R.; Ungaro, M.; Venturelli, L.; Voskanyan, H.; Vossen, A.; Voutier, E.; Wei, K.; Wei, X.; Wishart, R.; Wood, M. H.; Yale, B.; Zhang, J.; Zhao, Z. W., Beam-spin asymmetry Sigma for Sigma(-) hyperon photoproduction off the neutron. *Physics Letters B* **2022**, *827*.
8. Yuan, W.; Wang, X.; Lin, C. J.; Zhang, H.; Feng, X. B.; Lu, Z. Y., Impacts of Extreme Weather on Mercury Uptake and Storage in Subtropical Forest Ecosystems. *Journal of Geophysical Research-Biogeosciences* **2022**, *127*, (1).

9. Yuan, A. F.; Xu, Y. L.; Zhang, Q. Y.; Wang, R. H.; Yang, Z. H., Optimal Energy Efficiency for Relay Selection via Power Allocation in L2 Halo-Orbital Cislunar Communication Network. *Ieee Transactions on Vehicular Technology* **2022**, *71*, (3), 3155-3170.
10. Yu, L.; Wang, S. J.; Xu, Q., Optimal scheduling for simultaneous refinery manufacturing and multi oil-product pipeline distribution. *Computers & Chemical Engineering* **2022**, *157*.
11. Yousuf, A.; Hossain, M. S.; Rahman, M. A.; Karim, A.; Rahman, A., Renewable Energy Resources in Bangladesh: Prospects, Challenges and Policy Implications. *International Journal of Renewable Energy Research* **2022**, *12*, (2), 1076-1096.
12. Ye, G. G.; Fan, X. J.; Zhang, G. Q., Practical aspects of thermomechanical modeling in electronics packaging: A case study with a SiC power package. *Microelectronics Reliability* **2022**, *132*.
13. Ye, G. G.; Fan, X. J.; Middelburg, L. M.; El Mansouri, B.; Poelma, R. H.; Zhang, G. Q., Simulation for stability of a beam-mass based high-resolution MEMS gravimeter. *Materials & Design* **2022**, *219*.
14. Yang, L.; Wang, R. H.; Zhou, Y.; Liang, J.; Zhao, K. L.; Burleigh, S., An Analytical Framework for Disruption of Licklider Transmission Protocol in Mars Communications. *Ieee Transactions on Vehicular Technology* **2022**, *71*, (5), 5430-5444.
15. Yang, L.; Wang, R. H.; Liang, J.; Zhou, Y.; Zhao, K. L.; Liu, X. Y., Acknowledgment Mechanisms for Reliable File Transfer Over Highly Asymmetric Deep-Space Channels. *Ieee Aerospace and Electronic Systems Magazine* **2022**, *37*, (9), 42-51.
16. Wu, X.; Adhikari, B.; Chiu, S.; Yang, H.; Sajjadi, S.; Roy, U., Volume-Occupancy-Based Actuated Signal Control System: Design and Implementation to Diamond Interchanges in Houston. *International Journal of Civil Engineering* **2022**, *20*, (3), 337-348.
17. Worley, R.; Gummelt, G., From seduction to registration: case studies of women in the sex industry. *Criminal Justice Studies* **2022**, *35*, (2), 145-161.
18. Witvliet, M. G., My 15-month rollercoaster ride with COVID-19: A social epidemiologist's perspective. *Scandinavian Journal of Public Health* **2022**, *50*, (1), 1-3.
19. Wei, L. W.; Diddi, P., Morality rules: Understanding the role of prior reputation in consequences of scandals. *Public Relations Review* **2022**, *48*, (1).
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24. Vega-Guzman, J.; Biswas, A.; Asma, M.; Seadawy, A. R.; Ekici, M.; Alzahrani, A. K.; Belic, M. R., Optical soliton perturbation with parabolic-nonlocal combo nonlinearity: undetermined coefficients and semi-inverse variational principle. *Journal of Optics-India* **2022**, *51*, (1), 22-28.
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33. Selvaratnam, T.; Pan, S. L.; Rahman, A.; Tan, M.; Kharel, H. L.; Agrawal, S.; Nawaz, T., Bioremediation of Raw Landfill Leachate Using *Galdieria sulphuraria*: An Algal-Based System for Landfill Leachate Treatment. *Water* **2022**, *14*, (15).
34. Scheluchin, G.; Jude, T. C.; Alef, S.; Bauer, P.; Bayadilov, D.; Beck, R.; Braghieri, A.; Cole, P. L.; Elsner, D.; Di Salvo, R.; Fantini, A.; Freyermuth, O.; Frommberger, F.; Ghio, F.; Gridnev, A.; Hammann, D.; Hannappel, J.; Kohl, K.; Kozlenko, N.; Lapik, A.; Sandri, P. L.; Lisin, V.; Mandaglio, G.; Messi, R.; Moricciani, D.; Mushkarenkov, A.; Nedorezov, V.; Novinskiy, D.; Pedroni, P.; Polonskiy, A.; Reitz, B. E.; Romaniuk, M.; Schmieden, H.; Sumachev, V.; Tarakanov, V., Photoproduction of $K^+ \pi^0$ extending to forward angles and low momentum transfer. *Physics Letters B* **2022**, *833*.
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