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See Tsuyoshi Minami *et al.*, pp. 9930–9933. Image reproduced by permission of Tsuyoshi Minami from *Chem. Commun.*, 2024, 60, 9930.



Inside cover

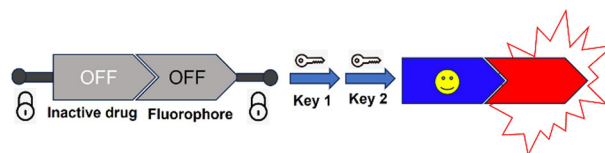
See Yuri Tulchinsky *et al.*, pp. 9871–9906. Image reproduced by permission of Yuri Tulchinsky from *Chem. Commun.*, 2024, 60, 9871.

HIGHLIGHT

9860

Dual-stimuli responsive theranostic agents based on small molecules

Shan-Shan Xue, Wanqi Zhu, Yuanyuan Li, Wei Pan, Na Li* and Bo Tang*

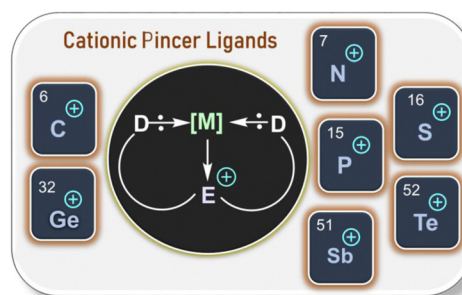


FEATURE ARTICLES

9871

Cationic ligands – from monodentate to pincer systems

Mohammad Zafar, Vasudevan Subramanian, Françoise Tibika and Yuri Tulchinsky*



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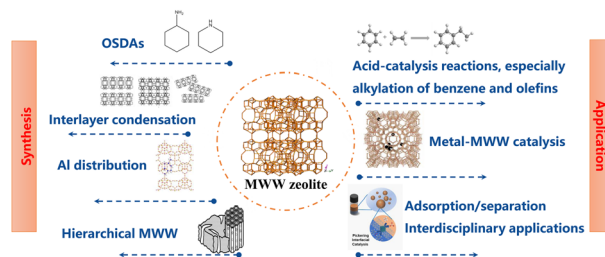
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FEATURE ARTICLES

9907

Advances in the green and controllable synthesis of MWW zeolite

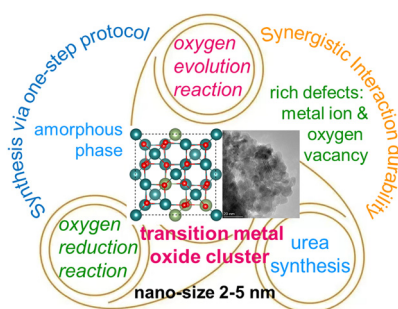
Yanan Wang, Yu Zhang, Weifeng Chu, Yang Gao, Sujuan Xie,* Xiujie Li, Longya Xu* and Xiangxue Zhu



9918

Transition metal oxide clusters: advanced electrocatalysts for a sustainable energy future

Sanwal Piracha, Yifei Zhang, Ali Raza and Gao Li*

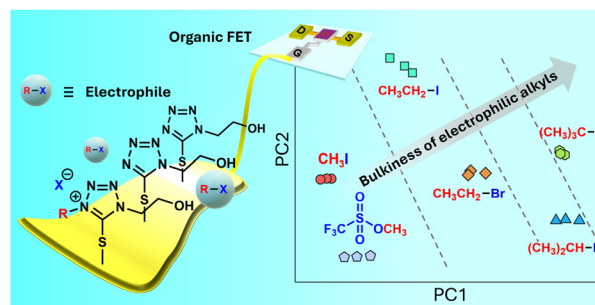


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An extended-gate-type organic transistor for monitoring the Menshutkin reaction of tetrazole at a solid-liquid interface

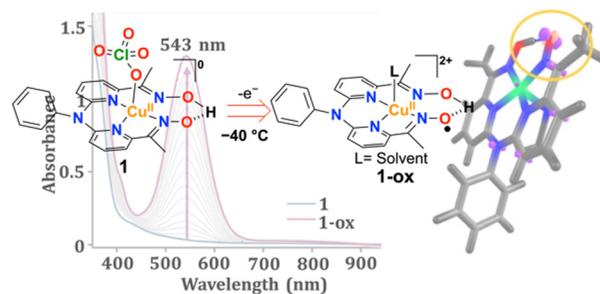
Yui Sasaki, Kohei Ohshiro, Xiaojun Lyu, Takayuki Kawashima, Masao Kamiko, Hikaru Tanaka, Akari Yamagami, Yoshinori Ueno and Tsuyoshi Minami*



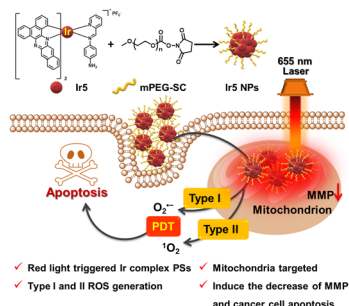
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Spectroscopic characterization and reactivity studies of a copper(II) iminoxyl radical complex

Simarjeet Kaur, Avijit Das, Lucia Velasco, Maxime Sauvan, Moumita Bera, Ashok Ugale, Asterios Charisiadis, Dooshaye Moonshiram* and Sayantan Paria*



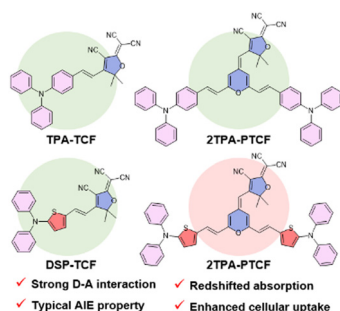
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Long-wavelength triggered iridium(III) complex nanoparticles for photodynamic therapy against hypoxic cancer

Shengnan Liu, Ziwei Wang, Zihan Wu, Haoran Chen, Dongxia Zhu,* Gungzhe Li,* Mingming Yan, Martin R. Bryce* and Yulei Chang*

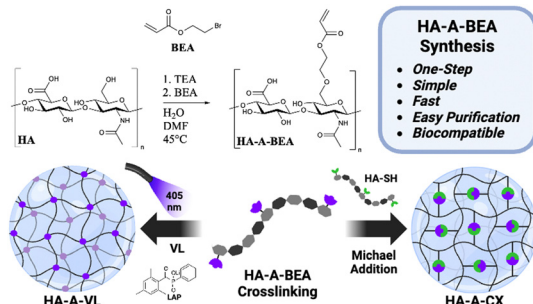
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Thiophene assisted cellular uptake enhancement for highly efficient NIR-II cancer phototheranostics

Yue Zhang, Jia Yu, Chunbin Li, Jianye Gong, Yifan Wu, Lina Feng, Zihan Chen, Renmanduhu Sha, Guoyu Jiang* and Jianguo Wang*

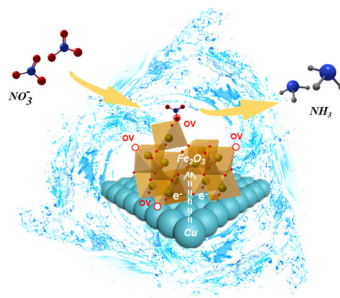
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Fast one-step acrylate functionalization of hyaluronic acid via Williamson ether synthesis

Cameron Milne, Rijian Song, Runqi Zhu, Melissa Johnson, Chunyu Zhao, Francesca Santoro Ferrer, Sigen A, Jing Lyu and Wenxin Wang*

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Oxygen vacancy-regulated nanorod array electrodes for boosting the electrocatalytic synthesis of ammonia from nitrate wastewater

Ziyi Yang, Yudong Li, Dan Liu, Maosen Song, Yang Gao, Bin Yang, Yanzhen He,* Enshan Han, Qiang Zhang* and Xiaohui Yang*

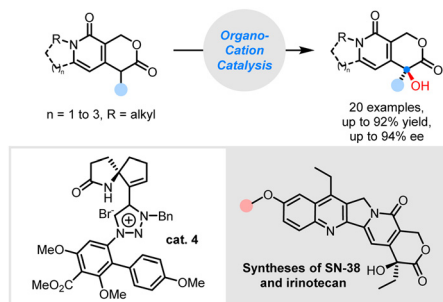


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Organo-cation catalyzed enantioselective α -hydroxylation of pyridinone-fused lactones: asymmetric synthesis of SN-38 and irinotecan

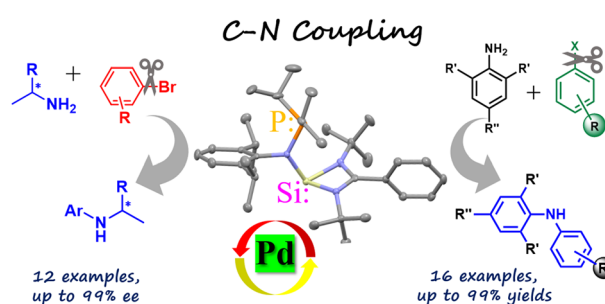
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A hybrid silylene-Pd catalyst: efficient C–N cross-coupling of sterically bulky amines and chiral amines

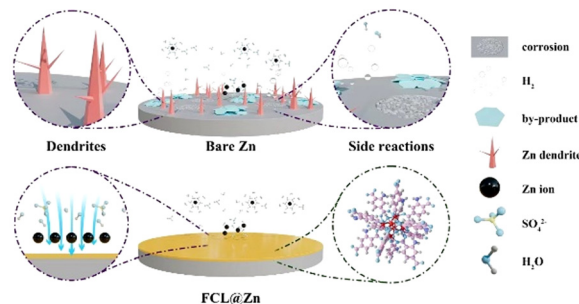
Sandeep H. Kaulage, Nasrina Parvin, Kishor V. Khopade and Shabana Khan*



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Stabilizing zinc anodes via engineering the active sites and pore structure of functional composite layers

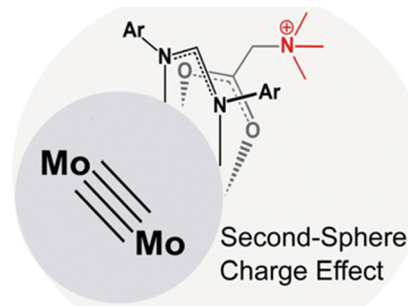
Kun Li, Jiahao Chen, Wang Xu, Zhongfu Yan, Borui Yang, Ting Li, Miao He, Jing Liu, Anjun Hu* and Jianping Long*



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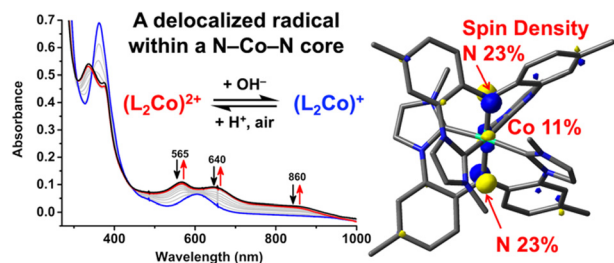
Quantifying effects of second-sphere cationic groups on redox properties of dimolybdenum quadruple bonds

S. M. Supundrika Subasinghe and Neal P. Mankad*



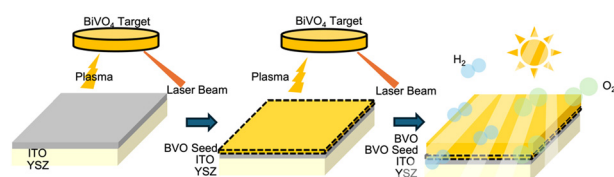
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**A stable radical within a N–Co–N core**

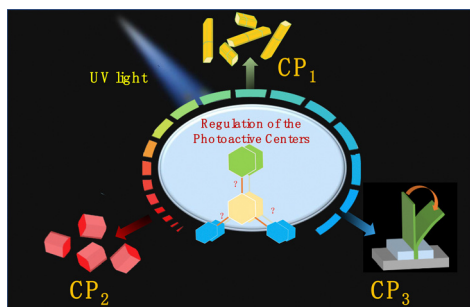
Anirban Bhandari, Gyeong Min Park, Heui Beom Lee, Sugyeong Hong, Sun Hee Kim, Hye Ryung Byon and Yunho Lee*

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**Optimizing pulsed laser deposition of crystalline BiVO₄ thin films on yttrium-stabilized zirconia (110) substrates**

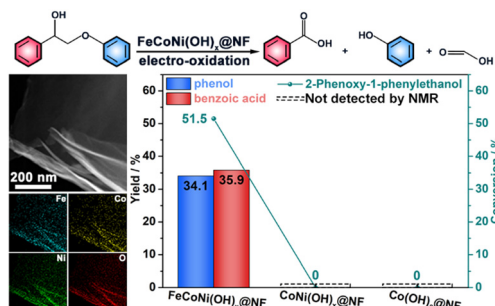
Zhaoyi Xi, Chenyu Zhou, Kim Kisslinger and Mingzhao Liu*

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**Photomechanical responses of coordination polymers regulated by precise organization of the photoactive centers**

Jia-Wei Wu, Zhen Qin, Qing-Shu Dong, David James Young, Fei-Long Hu* and Yan Mi*

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**Multimetal synergy in an iron–cobalt–nickel hydroxide electrocatalyst for electro-oxidative lignin depolymerization to produce value-added aromatic chemicals**

Pengfeng Li, Jiaqi Zhang, Shanshan Liu, Fengcai Lei, Xu Sun and Junfeng Xie*

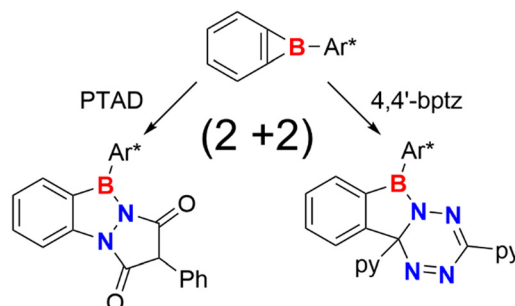


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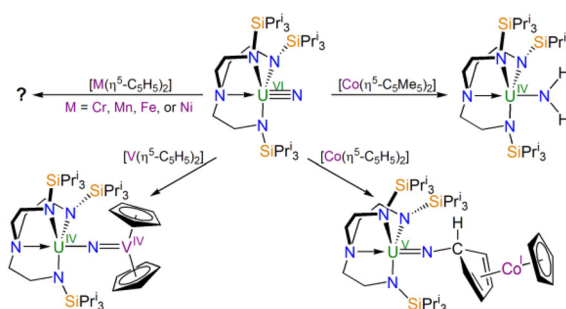
Marvin Sindlinger, Sonja Biebl, Markus Ströbele and Holger F. Bettinger*



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Reactivity of a triamidoamine terminal uranium(VI)-nitride with 3d-transition metal metallocenes

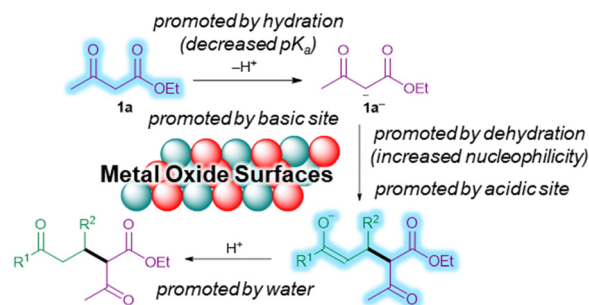
John A. Seed, Peter A. Cleaves, Georgina R. Hatton, David M. King, Floriana Tuna, Ashley J. Wooles, Nicholas F. Chilton* and Stephen T. Liddle*



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Vigorously stirred La₂O₃ suspensions for Michael additions in water

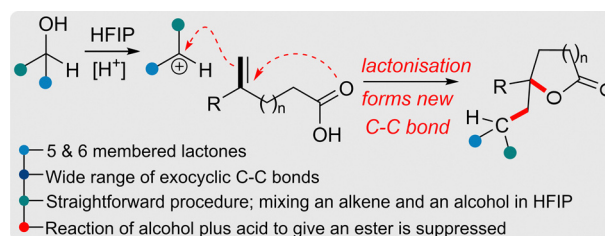
Tomoya Hisada, Rina Osada, Taku Kitanosono,* Yasuhiro Yamashita and Shū Kobayashi*



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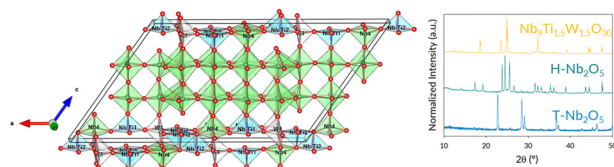
HFIP promoted carbo-lactonisation as a new route to functionalised lactones

Daniya Aynetdinova, Megan Jaschinski, Timothy C. Jenkins and Timothy J. Donohoe*



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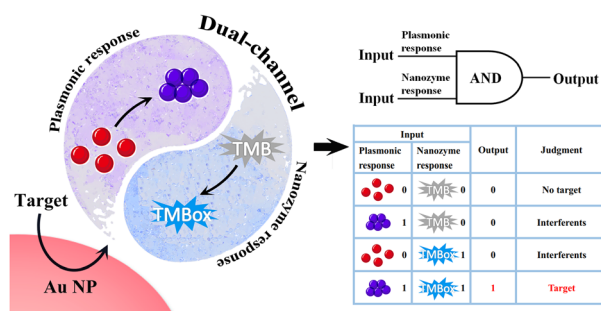
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A high-power 4×4 : crystallographic and electrochemical insights into a novel Wadsley–Roth anode $\text{Nb}_9\text{Ti}_{1.5}\text{W}_{1.5}\text{O}_{30}$

Elizabeth Helen Driscoll,* Alex Green, Dominic Fortes, Christopher Howard, Laura Louise Driscoll, Emma Kendrick, Colin Greaves and Peter Raymond Slater*

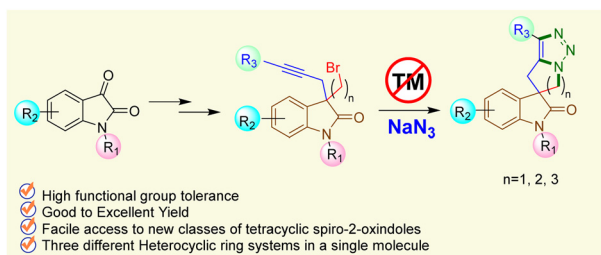
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Plasmonic and nanozyme dual-channel-based logic judgment for enhancing gold nanoparticle based colorimetric Hg^{2+} ion sensing performance

Kehui Zhang, Mingyue Luo, Honghong Rao, Haile Liu, Ruibin Qiang, Xin Xue, Jianying Li, Xiaoquan Lu and Zhonghua Xue*

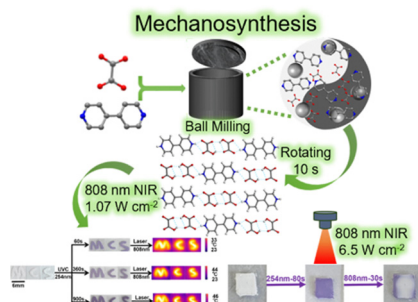
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Synthesis of triazole-fused tetracyclic spirooxindole derivatives *via* metal-free Huisgen cycloaddition

Sandip Maiti, Nabin Parui, Joydev Halder and Jyotirmayee Dash*

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Ultrafast mechanosynthesis of hydrogen-bonded organic frameworks with UV and NIR photoswitching of photochromic/photothermal behavior

Yanfeng Gao, Zhe Wang, Tieqiang Wang, Junbiao Wu,* Zhuopeng Wang, Zhiqiang Liang and Jiyang Li

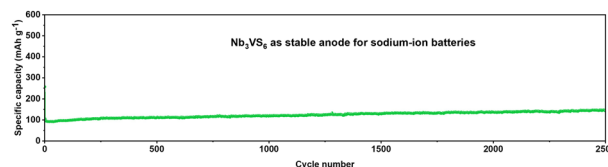


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Topochemically synthesized Nb_3VS_6 as a stable anode for sodium-ion batteries

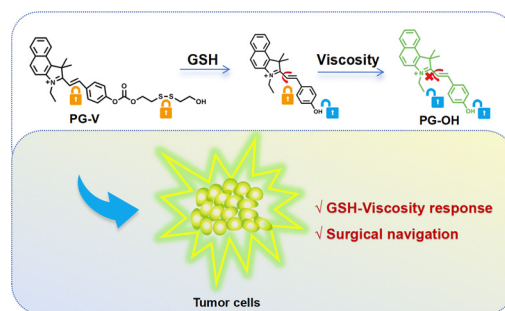
Harshit Pandey, Pallellappa Chithaiah, Savithri Vishwanathan, H. S. S. Ramakrishna Matte* and C. N. R. Rao*



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Glutathione and viscosity double-locked response fluorescent probe for imaging and surgical navigation of hepatocellular carcinoma

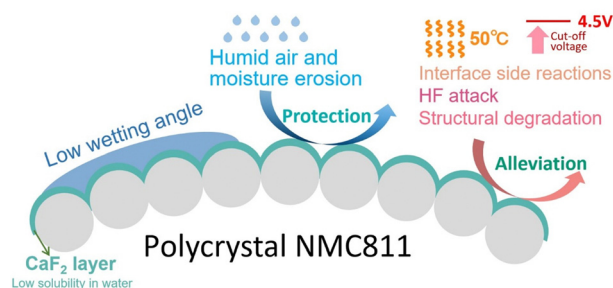
Wen Zhang, Min Zhang, Mengmei Li, Xin Wang, Ping Li* and Bo Tang*



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Enhancing humidity resistance of nickel-rich layered cathode materials by low water-soluble CaF_2 coating

Zijian Zhang, Jiajin Feng, Ran He, Yelong Zhang, Hangmin Zhu, Feng Wu, Qingguang Zeng, Hui Yu, Kwun Nam Hui, Xi Liu* and Da Wang*



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An Fe_2NiSe_4 /holey-graphene composite with superior rate capability enabled by in-plane holes for sodium-ion batteries

Zixin Wu, Xuejie Wang, Shenghua Hou, Xilong Zhang, Xinming Nie,* Jiaguo Yu* and Tao Liu*

