

# Izbrana znanstvena dela Kemijskega inštituta v letu 2021

## TOP-10

### Izvirni znanstveni članki

**IF=47,73**

**D09**

OU, Jingwei, CHEN, Peng, SHUKLA, Atul, KRAJNC, Andraž, WANG, Tiesheng, LI, Xuemei, DOASA, Rana, TIZEI, Luiz H. G., CHAN, Bun, JOHNSTONE, Duncan N., LIN, Rijia, SCHÜLLI, Tobias Urs, MARTENS, Isaac, APPADOO, Dominique, ARI, Mark S', WANG, Zhiliang, TONG, Wei, LO, Shih-Chun, LU, Mingyuan, LI, Shichun, NAMDAS, Ebinazar B., MALI, Gregor, CHEETHAM, Anthony K., COLLINS, Sean M., CHEN, Vicki, WANG, Lianzhou, BENNETT, Thomas D. Liquid-phase sintering of lead halide perovskites and metal-organic framework glasses. *Science*, 2021, vol. 374, no. 6567, str. 621-625. [COBISS.SI-ID 85974787]



**IF=41,81**

**D10**

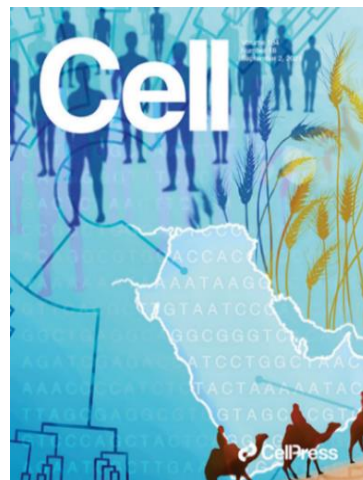
LI, Jingkun, SOUGRATI, Moulay Tahar, ZITOLO, Andrea, ABLETT, James M., OĞUZ, Ismail Can, MINEVA, Tzonka, MATANOVIC, Ivana, ATANASSOV, Plamen, HUANG, Ying, ZENYUK, Iryna, CICCO, Andrea Di, KUMAR, Kavita, DUBAU, Laetitia, MAILLARD, Frédéric, DRAŽIĆ, Goran, JAOUEN, Frédéric. Identification of durable and non-durable FeN<sub>x</sub> sites in Fe-N-C materials for proton exchange membrane fuel cells. *Nature Catalysis*, 2021, vol. 4, iss. 1, str. 10-19. [COBISS.SI-ID 42880515]



**IF=41,58**

**D11**

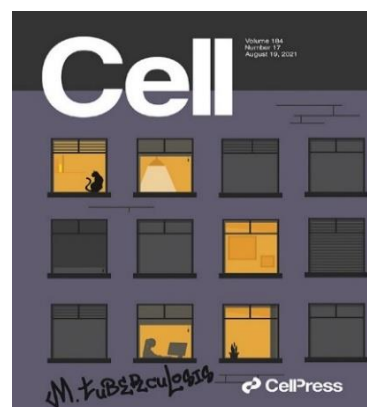
HALLEGGER, Martina, CHAKRABARTI, Anob M., LEE, Flora C. Y., LEE, Bo Lim, AMALIETTI, Aram-Gustav, ODEH, Hana M., COPLEY, Katie E., RUBIEN, Jack D., PORTZ, Bede, KURET, Klara, HUPPERTZ, Ina, RAU, Frédérique, PATANI, Rickie, FAWZI, Nicolas L., SHORTER, James, LUSCOMBE, Nicholas M., ULE, Jernej. TDP-43 condensation properties specify its RNA-binding and regulatory repertoire. *Cell*, 2021, vol. 184, iss. 18, str. 4680-4696. [COBISS.SI-ID 89271811]



**IF=41,58**

**D12**

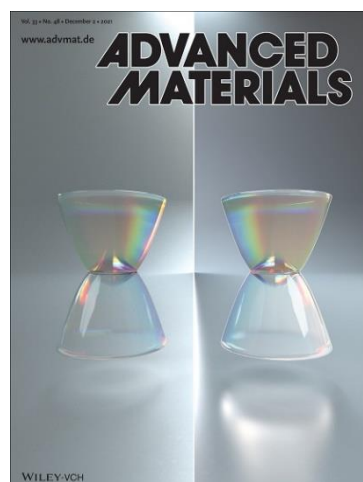
EVAVOLD, Charles L., HAFNER BRATKOVIČ, Iva, DEVANT, Pascal, D'ANDREA, Jasmin M., NGWA, Elsy M., BORŠIĆ, Elvira, DOENCH, John G., LAFLEUR, Martin W., SHARPE, Arlene H., THIAGARAJAH, Jay R., KAGAN, Jonathan C. Control of gasdermin D oligomerization and pyroptosis by the Ragulator-Rag-mTORC1 pathway. *Cell*, 2021, vol. 184, iss. 17, str. 4495-4511. [COBISS.SI-ID 72947971]



**IF=30,85**

**D10**

BAIUTTI, Federico, CHIABRERA, Francesco, DIERCKS, David, CAVALLARO, Andrea, YEDRA, Lluís, LÓPEZ-CONESA, L., ESTRADÉ, Sonia, PEIRÓ, Francesca, MORATA, Alex, AGUADERO, Ainara, TARANCÓN, Albert. Direct measurement of oxygen mass transport at the nanoscale. *Advanced materials*, 2021, vol. 33, no. 48, str. 1-8. [COBISS.SI-ID 88304387]



**IF=19,50**

**D09**

DAMASKINOS, Constantinos M., ZAVAŠNIK, Janez, DJINOVIĆ, Petar, EFSTATHIOU, Angelos M. Dry reforming of methane over Ni/Ce<sub>0.8</sub>Ti<sub>0.2</sub>O<sub>2-δ</sub>: the effect of Ni particle size on the carbon pathways studied by transient and isotopic techniques. *Applied catalysis. B, Environmental*, 2021, vol. 296, str. 120321-1-120321-20. [COBISS.SI-ID 62661123]



**IF=19,50**

**D13**

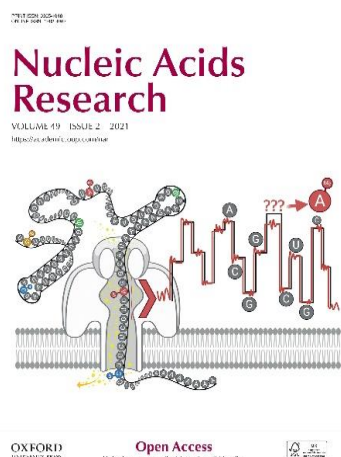
PRAŠNIKAR, Anže, LAŠIČ JURKOVIĆ, Damjan, LIKOZAR, Blaž. Reaction path analysis of CO<sub>2</sub> reduction to methanol through multisite microkinetic modelling over Cu/ZnO/Al<sub>2</sub>O<sub>3</sub> catalysts. *Applied catalysis. B, Environmental*, 2021, vol. 292, str. 120190-1 - 120190-10. [COBISS.SI-ID 62464003]



**IF=16,97**

**D15**

LAGO, Sara, NADAI, Matteo, RUGGIERO, Emanuela, TASSINARI, Martina, MARUŠIČ, Maja, TOSONI, Beatrice, FRASSON, Ilaria, CERNILOGAR, Filippo M., PIROTA, Valentina, DORIA, Filippo, PLAVEC, Janez, SCHOTTA, Gunnar, RICHTER, Sara N. The MDM2 inducible promoter folds into four-tetrad antiparallel G-quadruplexes targetable to fight malignant liposarcoma. *Nucleic acids research*, 2021, vol. 49, iss. 2, str. 847-863. [COBISS.SI-ID 51474947]



**IF=16,97**      **D15**

LENARČIČ      ŽIVKOVIĆ,      Martina,  
GAJARSKÝ,      Martin,      BEKOVÁ,      Kateřina,  
STADLBAUER,      Petr,      VICHEREK,      Lukáš,  
PETROVÁ,      Magdaléna,      FIALA,      Radovan,  
ROSENBERG,      Ivan,      ŠPONER,      Jiří,      PLAVEC,  
Janez,      TRANTÍREK,      Lukáš. Insight into  
formation propensity of pseudocircular DNA  
G-hairpins. *Nucleic acids research*, 2021, vol.  
49, iss. 4, str. 2317-2332. [COBISS.SI-ID  
54425859]

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**IF=16,97**      **D15**

BIELSKUTE,      Stase,      PLAVEC,      Janez,  
PODBEVŠEK,      Peter. Oxidative lesions  
modulate G-quadruplex stability and structure  
in the human BCL2 promoter. *Nucleic acids  
research*, 2021, vol. 49, iss. 4, str. 2346-2356.  
[COBISS.SI-ID 55258627]

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## Pregledna znanstvena članka

**IF=22,38**

**D01**

BORIŠEK, Jure, CASALINO, Lorenzo, SALTALAMACCHIA, Andrea, MAYS, Suzanne G., MALCOVATI, Luca, MAGISTRATO, Alessandra. Atomic-level mechanism of pre-mRNA splicing in health and disease. *Accounts of chemical research*, 2021, vol. 54, iss. 1, str. 144-154. [COBISS.SI-ID 43028739]



**IF=17,79**

**D10**

GEZOVIĆ, Aleksandra, VUJKOVIĆ, Milica J., MILOVIĆ, Miloš, GRUDIĆ, Veselinka, DOMINKO, Robert, MENTUS, Slavko. Recent developments of  $\text{Na}_4\text{M}_3(\text{PO}_4)_2(\text{P}_2\text{O}_7)$  as the cathode material for alkaline-ion rechargeable batteries: challenges and outlook. *Energy storage materials*, 2021, vol. 37, str. 243-273. [COBISS.SI-ID 87667203]

