

## Izbrana znanstvena dela Kemijskega inštituta v letu 2023

### TOP-10

#### Izvirni znanstveni članki

##### IF=37,8 D09

DALLENES, Jesse, WUYTS, Jonas, VAN VELTHOVEN, Niels, KRAJNC, Andraž, MALI, Gregor, USOLTSEV, Oleg A., BUGAEV, Aram L., VOS, Dirk, de. Zeolites as equilibrium-shifting agents in shuttle catalysis. *Nature Catalysis*. 2023, vol. 6, iss. 6, str. 495–505. [COBISS.SI-ID [170238211](#)]

##### IF=32,4 D12

MIAO, Rui, JIANG, Cong, CHANG, Winston Y., ZHANG, Haiwei, AN, Jinsu, HO, Felicia, CHEN, Pengcheng, ZHANG, Han, JUNQUEIRA, Caroline, FOTONA, Pietro, HAFNER BRATKOVIČ, Iva, AMGALAN, Dulguuh, LIANG, Felix G., ZHANG, Junbing, XIA, Shiyu, WALDECK-WEINER, Markus, PAN, Youdong, MICHAEL, Thomas, LIEBERMAN, Judy, EVAVOLD, Charles, L. Gasdermin D permeabilization of mitochondrial inner and outer membranes accelerates and enhances pyroptosis. *Immunity*. 2023, vol. 56, iss. 11, str. 2523–2541. [COBISS.SI-ID [176368387](#)]

##### IF=29,4 D10

KATRAŠNIK, Tomaž, MOŠKON, Jože, ZELIČ, Klemen, MELE, Igor, RUIZ-ZEPEDA, Francisco, GABERŠČEK, Miran. Entering voltage hysteresis in phase-separating materials: revealing the electrochemical signature of the intraparticle phase-separated state. *Advanced Materials*. 2023, vol. 35, iss. 31, article no. 2210937, str. 1-18. [COBISS.SI-ID [151199235](#)]

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##### IF =20,4 D04, D10

PALJK, Tina, BRACAMONTE, Victoria, SYROVY, Tomas, DRVARIČ TALIAN, Sara, HOČEVAR, Samo B., DOMINKO, Robert. Integrated sensor printed on the separator enabling the detection of dissolved manganese ions in battery cell. *Energy Storage Materials*. 2023, vol. 55, str. 55-63. [COBISS.SI-ID [138865923](#)]

**IF = 16,6 D13**

HUŠ, Matej, GRILC, Miha, TERŽAN, Janvit, GYERGYEK, Sašo, LIKOZAR, Blaž, HELLMAN, Anders. Going beyond silver in ethylene epoxidation with first-principles catalyst screening. *Angewandte Chemie: International Edition*. 2023, vol. 62, iss. 3, article no. e202305804, str. 1-11. [COBISS.SI-ID [154010371](#)]

**IF = 16,6 D15**

GHEZZO, Michele, TRAJKOVSKI, Marko, PLAVEC, Janez, SISSI, Claudia. A screening protocol for exploring loop length requirements for the formation of a three cytosine-cytosine<sup>+</sup> base-paired I-Motif. *Angewandte Chemie: International Edition*. 2023, vol. 62, iss. 41, article no. e202309327, str. 1-12. [COBISS.SI-ID [170383363](#)]

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**IF = 16,6 D09**

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**IF = 16,6 D12**

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MAKRI PISTIKOU, Anna-Maria, CREMERS, Glenn A. O., NATHALIA, Bryan L., MEULEMAN, Theodorus J., BÖGELS, Bas W. A., EIJKENS, Bruno V., DE DREU, Anne, BEZEMBINDER, Maarten T. H., STASSEN, Oscar M. J. A., BOUTEN, Carlijn C. V., MERKX, Maarten, JERALA, Roman, DE GREEF, Tom F. A. Engineering a scalable and orthogonal platform for synthetic communication in mammalian cells. *Nature Communications*. 2023, vol. 14, article no. 7001, str. 1-16. [COBISS.SI-ID 172068099]

**IF = 16,6, D09, D15**

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## Pregledni znanstveni članki

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**IF = 15,9 D10**

CHOUHAN, Raghuraj S., GANDHI, Sonu, VERMA, Suresh, Kr., JERMAN, Ivan, BAKER, Syed, ŠTOK, Marko. Recent advancements in the development of Two-Dimensional nanostructured based anode materials for stable power density in microbial fuel cells. *Renewable and Sustainable Energy Reviews*. 2023, vol. 188, article no. 113813, str. 1-20. [COBISS.SI-ID [168667395](#)]

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## Drugi znanstveni prispevki

**IF= 16,0 D12**

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