

CO₂ reduction to formate on an affordable bismuth metal-organic framework based catalyst

Avila-Bolivar, Beatriz; Cepitis, Ritums; **Alam, Mahboob; Starkov, Pavel** Journal of CO₂ Utilization 2022 / art. 101937, 11 p
<https://doi.org/10.1016/j.jcou.2022.101937> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Comparison of benzimidazole-derived iron triad M–N–C nanomaterials as trifunctional catalysts in alkaline and acidic media : [manuscript]

Alam, Mahboob; Ping, Kefeng; Danilson, Mati; Mikli, Valdek; Käärrik, Maike; Leis, Jaan; Aruväli, Jaan; Paiste, Päärm; Rähn, Mihkel; Sammelselg, Väino; Tammeveski, Kaido; Kramm, Ulrike; Kongi, Nadežda; **Starkov, Pavel** 2022

Fabrication of novel metal, nitrogen co-doped carbon materials based on a unique organic ligand = Uue orgaanilise ligandi kasutuselevõtt metalli ja lämmastikuga rikastatud süsinikmaterjalide sünteesimiseks

Alam, Mahboob 2022 <https://doi.org/10.23658/taltech.59/2022> <https://digikogu.taltech.ee/et/Item/c29cf2b3-8776-47b8-82dc-3eb33cb56941>
https://www.ester.ee/record=b5524927*est

Fused hybrid linkers for metal–organic framework-derived bifunctional oxygen electrocatalysts

Ping, Kefeng; Braschinsky, Alan; **Alam, Mahboob; Bhadoria, Rohit; Mikli, Valdek; Mere, Arvo;** Aruväli, Jaan; Paiste, Päärm; Vlassov, Sergei; Kook, Mati; Rähn, Mihkel; Sammelselg, Väino; Tammeveski, Kaido; Kongi, Nadežda; **Starkov, Pavel** ACS Applied Energy Materials 2020 / p. 152–157 : ill <https://doi.org/10.1021/acsaem.9b02039> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fused hybrid linkers for metal–organic frameworks-derived bifunctional oxygen electrocatalysts : [version 1.0] [Online resource]

Ping, Kefeng; Braschinsky, Alan; **Alam, Mahboob; Bhadoria, Rohit; Mikli, Valdek; Mere, Arvo; Starkov, Pavel** ChemRxiv 2019 / 10 p., S16 p. : ill <https://doi.org/10.26434/chemrxiv.7687358>

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Ping, Kefeng; Braschinsky, Alan; **Alam, Mahboob; Bhadoria, Rohit; Mikli, Valdek; Mere, Arvo; Starkov, Pavel** ChemRxiv 2019 / 10 p., S17 p. : ill <https://doi.org/10.26434/chemrxiv.7687358.v2>

Iron triad-based bimetallic M–N–C nanomaterials as highly active bifunctional oxygen electrocatalysts

Alam, Mahboob; Ping, Kefeng; Danilson, Mati; Mikli, Valdek; Käärrik, Maike; Leis, Jaan; Aruväli, Jaan; Paiste, Päärm; Rähn, Mihkel; Sammelselg, Väino; Tammeveski, Kaido; Haller, Steffen; Kramm, Ulrike Ingrid; **Starkov, Pavel;** Kongi, Nadežda ACS Applied Energy Materials 2024 / p. 4076 - 4087 <https://doi.org/10.1021/acsaem.4c00366> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Multi-purpose heterogeneous catalyst material from an amorphous cobalt metal–organic framework

Ping, Kefeng; Alam, Mahboob; Kahnert, Sean Ray; Bhadoria, Rohit; Mere, Arvo; Mikli, Valdek; Käärrik, Maike; Aruväli, Jaan; Paiste, Päärm; Kikas, Arvo; Kisand, Vambola; **Järving, Ivar;** Leis, Jaan; Kongi, Nadežda; **Starkov, Pavel** Materials advances 2021 / p. 4009-4015 <https://doi.org/10.1039/D1MA00414J> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Shungite-derived graphene as a carbon support for bifunctional oxygen electrocatalysts

Kazimova, Nargiz; **Ping, Kefeng; Alam, Mahboob; Danilson, Mati;** Merisalu, Maido; Aruväli, Jaan; Paiste, Päärm; Käärrik, Maike; **Mikli, Valdek;** Leis, Jaan; Tammeveski, Kaido; **Starkov, Pavel;** Kongi, Nadežda Journal of catalysis 2021 / p. 178–187
<https://doi.org/10.1016/j.jcat.2021.01.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Surveying iron–organic framework TAL-1-derived materials in ligandless heterogeneous oxidative catalytic transformations of alkylarenes

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