

Subdivision 6, Publications 2018 – 2020

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Articles in journals

- 1) **Hao, Q.**, Li, M., **Wang, J.**, **Fan, X.**, Jiang, J., **Wang, X.**, **Zhu, M.**, Qiu, T., **Ma, L.**, Chu, P.K., **Schmidt, O.G.**, Flexible Surface-Enhanced Raman Scattering Chip: A Universal Platform for Real-Time Interfacial Molecular Analysis with Femtomolar Sensitivity, *ACS Applied Materials & Interfaces* 48 12 (2020), S. 54174-54180
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- 2)* **Lepucki, P.**, **Egunov, A.I.**, **Rosenkranz, M.**, **Huber, R.**, **Mirhajivarzaneh, A.**, **Karnaushenko, D.D.**, **Dioguardi, A.P.**, **Karnaushenko, D.**, **Büchner, B.**, **Schmidt, O.G.**, **Grafe, H.**, Self-Assembled Rolled-Up Microcoils for nL Microfluidics NMR Spectroscopy, *Advanced Materials Technologies* 1 6 (2021), S. 2000679/1-10
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- 3) Liu, L., Wang, J., **Oswald, S.**, Hu, J., **Tang, H.**, **Wang, J.**, **Yin, Y.**, **Lu, Q.**, Liu, L., Carbó-Argibay, E., Huang, S., **Dong, H.**, **Ma, L.**, **Zhu, F.**, **Zhu, M.**, **Schmidt, O.G.**, Decoding of Oxygen Network Distortion in a Layered High-Rate Anode by In Situ Investigation of a Single Microelectrode, *ACS Nano* 9 14 (2020), S. 11753–11764
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- 5) Kiani, M., Tannert, A., Du, N., Hübner, U., Skorupa, I., Bürger, D., Zhao, X., Blaschke, D., Rebohle, L., Cherkouk, C., Neugebauer, U., **Schmidt, O.G.**, Schmidt, H., Towards Bacteria Counting in DI Water of Several Microliters or Growing Suspension Using Impedance Biochips, *Biosensors* 8 10 (2020), S. 82/1-15 <https://doi.org/10.3390/bios10080082>.
- 6) **Rezaev, R.O.**, **Smirnova, E.I.**, **Schmidt, O.G.**, **Fomin, V.M.**, Topological transitions in superconductor nanomembranes under a strong transport current, *Communications Physics* 3 (2020), S. 144/1-8 <https://doi.org/10.1038/s42005-020-00411-4>.
- 7) **Li, F.**, **Qu, J.**, **Li, Y.**, **Wang, J.**, **Zhu, M.**, **Liu, L.**, **Ge, J.**, **Duan, S.**, **Li, T.**, **Bandari, V.K.**, Huang, M., **Zhu, F.**, **Schmidt, O.G.**, Stamping Fabrication of Flexible Planar Micro-Supercapacitors Using Porous Graphene Inks, *Advanced Science* 19 7 (2020), S. 2001561/1-9
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- 8) **Saggau, C.N.**, **Gabler, F.**, **Karnaushenko, D.D.**, **Karnaushenko, D.**, **Ma, L.**, **Schmidt, O.G.**, Wafer-Scale High-Quality Microtubular Devices Fabricated via Dry-Etching for Optical and Microelectronic Applications, *Advanced Materials* 37 32 (2020), S. 2003252/1-6
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- 15) Wang, Z., Li, Y., Huang, S., **Liu, L.**, Wang, Y., Jin, J., Kong, D., **Zhang, L., Schmidt, O.G.**, PVD customized 2D porous amorphous silicon nanoflakes percolated with carbon nanotubes for high areal capacity lithium ion batteries, *Journal of Materials Chemistry A* 9 8 (2020), S. 4836-4843 <https://doi.org/10.1039/C9TA12923E>.
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Individual contributions to edited volumes

- 1) **Aziz, A., Medina Sanchez, M.**, Claussen, J., **Schmidt, O.G.**, Optoacoustic detection of 3D microstructures in deep tissue-mimicking phantoms, *Proceedings of MARSS 2019: The 4th International Conference on Manipulation, Automation, and Robotics at Small Scales* (2019) <https://ieeexplore.ieee.org/xpl/conhome/8852501/proceeding>.
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