

Publikationen und Patente
Prof. Dr. Gerhard Sextl
(Stand 10/2021)

- (1) Bozkaya, B., Settelein, J., Komma, M., Gryglewicz, G., Sextl, G., Giffin, G.:
„Influence of basic carbon additives on the electrochemical performance of lead-carbon batteries“
Journal of Energy Storage, Vol. 44, A (2021) 103400
- (2) Hasselmann, S., Hahn, L., Lorson, Th., Schätzlein, E., Sébastien, I., Beudert, M., Lühmann, T., Neubauer, J., Sextl, G., Luxenhofer, R., Heinrich, D.:
„Freeform direct laser writing of versatile topological 3D scaffolds enabled by intrinsic support hydrogel“
Materials Horizons (2021)
- (3) Hofmann, M., Nagler, F., Guntow, U., Sextl, G., Giffin, G.:
“Long-Term Cycling Performance of Aqueous Processed Ni-Rich $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Cathodes“
Journal of the Electrochemical Society, 168 (2021)
- (4) Kolb, C., Lindemann, N., Wolter, H., Sextl, G.:
“3D-printing of highly translucent ORMOCER®-based resin using light absorber for high dimensional accuracy“
Journal of Applied Polymer Science 138 (3) (2021) 4969
- (5) Dotterweich, C., Oeftering, H.P., Zink, M.H., Popp, J., Sextl, G., Staab, T., Berger, F.:
“Influence of impurities on the electrical conductivity in paraffinic model oil“
VDE High Voltage Technology 2020, ETG-Symposium, 1 - 6
- (6) Kolb, C., Gumpert, K., Wolter, H., Sextl, G.:
“Highly translucent dental resin composites through refractive index adaption using zirconium dioxide nanoparticles and organic functionalization“
Dental Materials (2020) (10) 1332 - 1342
- (7) Niklaus, L., Schott, M., Mihelcic, M., Jerman, I., Posset, U., Sextl, G.:
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Solar Energy Materials and Solar Cells 200 (2019) 110002
- (8) Lotter, F., Petschke, D., Staab, T., Rohrman, U., Schubert, T., Sextl, G., Kieback, B.:
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Phys. Status Solidi A (2018) 1800038
- (9) Lotter, F., Petschke, D., de Geuser, G., Elsayed, M., Sextl, G., Staab, T.:
“In situ natural ageing of Al-Cu-(Mg) alloys: The effect of In and Sn on the very early stages of decomposition“

- (10) Dotterweich, C., Dax, F., Zink, M. H., Popp, J., Staab, T., Sextl, G., Berger, F.:
"Influence of the Electrode Surface Roughness on the Electrical Conductivity of Pure Paraffin"
IEEE 20th Intern. Conf. on Dielectric Liquids (2019) 1 – 4
- (11) Ebert, F., Oberbauer, A., Cabanero, M. A., Sextl, G., Lienkamp, M.:
"Simulation of Lithium Plating Due to Spatial Inhomogeneous Separator Strain in Lithium-Ion-Cells"
Intern. Journal of Automotive Engineering 10 (2) (2019) 242 – 248
- (12) Hauber, S., Dittrich, S., Walter, T. M., Durschang, B., Schell, K. G., Bucharsky, E. C., Reitz, E., Sextl, G., Hoffmann, M. J.:
"Bilayered glass-ceramics as sealants for SOFCs"
Journal of Materials Science and Engineering A 9 (3 – 4) (2019) 43 - 55
- (13) Ballweg, T., von Daake, H., Hanselmann, D., Stephan, D., Mandel, K., Sextl, G.:
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- (14) Schug, B., Mandel, K., Schottner, G., Shmeliov, A., Nicolosi, V., Baese, R., Förthner, S., Pietschmann, B., Biebl, M., Sextl, G.:
"Revealing the working principle of sodium trimetaphosphate as state of the art anti-creep agent in gypsum plaster"
Journal of Cement and Concrete Research 107 (2018) 182 – 187
- (15) Settelein, J., Oehm, J., Bozkaya, B., Leicht, H., Wiener, B., Reichenauer, G., Sextl, G.:
"The external surface area of carbon additives as key to enhance the dynamic charge acceptance of lead-carbon electrodes"
Journal of Energy Storage 15 (2018) 196 - 204
- (16) Schug, B., Mandel, K., Schottner, G., Shmeliov, A., Nicolosi, V., Baese, R., Pietschmann, B., Biebl, M., Sextl, G.:
„A mechanism to explain the creep behavior of gypsum plaster"
Cement and Concrete Research 98 (2017) 122 – 129
- (17) Boaretto, N., Horn, T., Popall, M., Sextl, G.:
"Optimization of the transport and mechanical properties of polysiloxane/polyether hybrid polymer electrolytes"
Electrochimica Acta 241 (2017) 477 – 486
- (18) Ebert, F., Sextl, G., Adermann, J., Reiter, C., Lienkamp, M.:
„Detection of cell-stack inhomogeneities via mechanical SOC and SOH measurement"
Transportation Electrification Conference and Expo ITEC (2017) IEEE 545 – 549
- (19) Ebert, F., Sextl, G., Lienkamp, M.:
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- (20) Wehner, T., Seuffert, MT., Sorg, JR., Schneider, M., Mandel, K., Sextl, G.:
„Composite materials combining multiple luminescent MOFs and superparamagnetic microparticles for ratiometric water detection“
Journal of Materials Chemistry C 5 (39) (2017) 10133 – 10142
- (21) Brockmann, N., Bokelmann, K., Rose, K., Herling, M., Gunschera, J., Sextl, G.:
„Composite coating composed of zeolite Y (FAU) and binder prepared from bis(triethosilyl) ethane“
Journal of Coatings Technology and Research 14 (1) (2017) 153 - 162
- (22) Flegler, A., Hartmann, S., Settelein, J., Mandel, K., Sextl, G.:
„Screen printed bifunctional gas diffusion electrodes for aqueous metal-air batteries: Combining the best of the catalyst and binder world“
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- (23) Straßer, M., Schrauth, J., Dembski, S., Haddad, D., Ahrens, B., Schweizer, S., Christ, B., Cubukova, A., Metzger, M., Walles, H., Jakob, P., Sextl, G.:
„Calcium fluoride based multifunctional nanoparticles for multimodal imaging“
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- (24) Settelein, J., Lormann H., Sextl, G.:
„Evaluating the lead affinity of graphite additives in lead-acid batteries by electrochemical deposition“
Electrochimica Acta 233 (2017) 173 – 180
- (25) Flegler, A., Müssig, S., Prieschl, J., Mandel, K., Sextl, G.:
„Towards core-shell bifunctional catalyst particles for aqueous metal-air batteries: NiFe-layered double hydroxide nanoparticle coatings on γ -MnO₂ microparticles“
Electrochimica Acta 231 (2017) 216 - 222
- (26) Gold, L., Bach, T., Virsik, W., Schmitt, A., Mueller, J., Staab, Torsten, and Sextl, G.:
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- (27) Schneider, F., Drenkova-Tuhtan, A., Szczerba, W., Gellermann, C., Meyer, C., Steinmetz, H. Mandel, K., Sextl, G.:
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- (29) Stichel, T., Hecht, B., Steenhusen, S., Houbertz, R., Sextl, G.:
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"Mechanochemical and thermal formation of 1H-benzotriazole coordination polymers and complexes of 3d-transition metals with intriguing dielectric properties"
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Colloids and Surface A: Physicochemical and Engineering Aspects 488 (2016) 145 - 153
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"Smart Optical Composite Materials: Dispersions of Metal-Organic Framework@ Superparamagnetic Microrods for Switchable Isotropic-Anisotropic Optical Properties"
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Journal of Power Sources 301 (2016) 35 -40
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Journal of Carbon Research (2016) C2
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Patente

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