

CURRICULUM VITAE

Assoc. Prof. Ing. Ondřej Jankovský, Ph.D.

Personal information

Date of birth May 17, 1987
Place of birth Prague
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Education

2011 – 2015 University of Chemistry and Technology Prague, Ph.D. degree, Faculty of Chemical Technology, Department of Inorganic chemistry
2009 – 2011 University of Chemistry and Technology Prague, Master's degree, Faculty of Chemical Technology, Department of Inorganic chemistry
2006 – 2009 University of Chemistry and Technology Prague, Bachelor's degree, Faculty of Chemical Technology, Department of Inorganic chemistry

Work history

2021 Internship, TU Bergakademie Freiberg, Professorship of Ceramics, Refractories and metal-ceramic Composites, 3 months, project CRC 920
2019 – present University of Chemistry and Technology Prague, Department of Inorganic chemistry, position: associate professor
2018 Internship, TU Bergakademie Freiberg, Institute of Ceramic, Glass and Construction Materials, 6 months, Alexander von Humboldt foundation
2017 Internship, TU Bergakademie Freiberg, Institute of Ceramic, Glass and Construction Materials, 3 months, project CRC 920
2015 – 2018 University of Chemistry and Technology Prague, Department of Inorganic chemistry, position: assistant professor
2013 – 2015 University of Chemistry and Technology Prague, Department of Inorganic chemistry, position: researcher
2013 – present The Czech Ceramic Society: secretary/vice-president

Languages

German A1
English C1
Czech C2, native speaker

Summary of publication activity

162 Publications indexed in WOS
27 *h*-index (WOS)
19 Patents and utility models
2300 Total citations (WOS)
5 Journal covers and frontispieces
4 Books or book chapters

Teaching and mentoring

Teaching Chemical calculations, Chemistry: Seminar Laboratories - General and Inorganic Chemistry I and II, Advanced laboratories - Chemistry and Technology of Materials, Advanced laboratories - Inorganic chemistry
Mentoring and co-supervising 20 students of bachelor, master or PhD degree

Membership on boards of journals and in societies

Czech Ceramic Society – Vice-president (<http://www.silikaty.cz/>)
Czech Chemical Society (<http://csch.cz/en/home/>)
Ceramics-Silikáty (editorial board)
Materials (editorial board)
Applied Sciences (editorial board)

Awards and scholarship

Stipendium of Emil Votocek (2013, 2014 and 2015 for excellent students)

Young Scientist Award (2016 - The Czech Ceramic Society)

Josef Hlavka Award (2016 – Foundation Nadání Josefa, Marie a Zdeňky Hlávkových)

Alexander von Humboldt Foundation (6 months in 2018)

Young Scientist Award ECerS (2021)

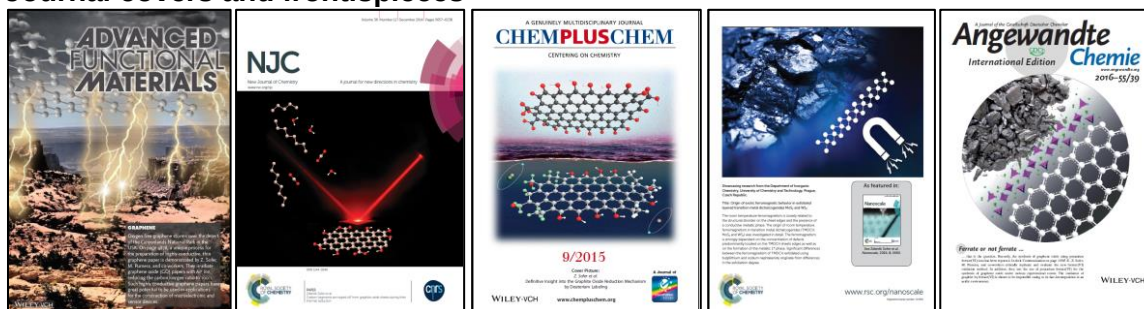
Principal investigator (applicant) of research projects (funding approx. 1 mil EUR)

- 1) GA17-02815S, GAČR 2017-2019, Czech Science Foundation
- 2) TK01030200, TACR THÉTA 2018-2024, Technology Agency of the Czech Republic
- 3) GA19-00262S, GAČR 2019-2021, Czech Science Foundation
- 4) GA20-01866S, GAČR 2020-2022, Czech Science Foundation
- 5) TJ04000022, TACR ZETA 2020-2022, Technology Agency of the Czech Republic
- 6) 7x PIGA/VIGA/IGA, Internal grants of UCT Prague

Participation in projects (team member) (funding approx. 50 mil EUR)

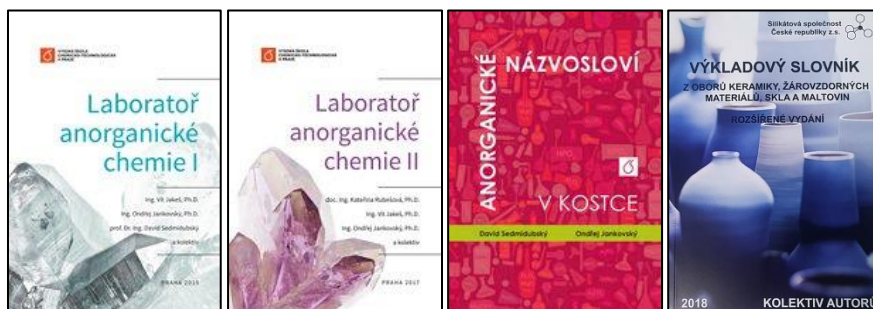
FR-TI1/497, IAAX01220701, P108/12/1170, GA13-17538S, GA13-20507S, GA15-09001S, TH01010567, GA16-05167S, FV10522, TH02010822, CRC 920-169148856, GA17-13161S, GA17-11456S, CZ.02.1.01/0.0/0.0/15_003/0000444, TJ01000072, TH03020348, FV40201, GA20-03253S, CZ.2.17/3.1.00/34283, CZ.02.2.69/0.0/0.0/16_015/0002374, GA21-11313S

Journal covers and frontispieces



Books, textbooks, scripts

1. V. Jakeš, O. Jankovský, D. Sedmidubský, Laboratories - General and Inorganic Chemistry I (Czech), ISBN: 978-80-7080-941-9, 2015, 133 pages.
2. K. Rubešová, V. Jakeš, O. Jankovský, Laboratories - General and Inorganic Chemistry II (Czech), ISBN: 978-80-7080-983-9, 2017, 181 pages.
3. D. Sedmidubský, O. Jankovský, Inorganic nomenclature (Czech), ISBN: 978-80-7592-058-4, 2020, 56 pages.
4. M. Buriánek, L. Čtrnáctá, E. Hejnová, O. Jankovský, et al., Glossary in the fields of ceramics, refractory materials, glass and mortars (Czech), ISBN: 978-80-02-02795-9, 2018.



List of publications with impact factor (J_{imp})

1. M. Míka, L. Pína, M. Landová, O. Jankovský, R. Kačerovský, L. Šveda, R. Havlíková, R. Hudec, V. Maršíková, A. Inneman, Glass and silicon foils for X-Ray space telescope mirrors, *Ceram.-Silikáty*, 2011, **55**, 418–424.
2. J. Hejtmánek, K. Knížek, M. Maryško, Z. Jiráček, D. Sedmidubský, O. Jankovský, Š. Huber, P. Masschelein, B. Lenoir, Magnetic and magnetotransport properties of misfit cobaltate $\text{Ca}_3\text{Co}_{3.93}\text{O}_{9+\delta}$ *J. Appl. Phys.*, 2012, **111**, 07D715.
3. D. Sedmidubský, V. Jakeš, O. Jankovský, J. Leitner, Z. Sofer, J. Hejtmánek, Phase equilibria in Ca–Co–O system, *J. Solid State Chem.*, 2012, **194**, 199–205.
4. O. Jankovský, D. Sedmidubský, Z. Sofer, P. Šimek, J. Hejtmánek, Thermodynamic behavior of $\text{Ca}_3\text{Co}_{3.93+x}\text{O}_{9+\delta}$ ceramics, *Ceram.-Silikáty*, 2012, **56**, 139–144.
5. P. Šimek, Z. Sofer, D. Sedmidubský, O. Jankovský, J. Hejtmánek, M. Maryško, M. Václavů, M. Mikulics, Mn doping of GaN layers grown by MOVPE, *Ceram.-Silikáty*, 2012, **56**, 122–126.
6. L. Nádherný, Z. Sofer, D. Sedmidubský, O. Jankovský, M. Mikulics, ZnO thin films prepared by spray-pyrolysis technique from organo-metallic precursor, *Ceram.-Silikáty*, 2012, **56**, 117–121.
7. Z. Sofer, D. Sedmidubský, Š. Huber, P. Šimek, F. Šaněk, O. Jankovský, E. Gregorová, R. Fiala, S. Matějková, M. Mikulics, Rapid thermal synthesis of GaN nanocrystals and nanodisks, *J. Nanopart. Res.*, 2013, **15**, 1411–1417.
8. O. Jankovský, D. Sedmidubský, Z. Sofer, Phase diagram of the pseudobinary system Bi–Co–O, *J. Eur. Ceram. Soc.*, 2013, **33**, 2699–2704.
9. O. Jankovský, D. Sedmidubský, Z. Sofer, J. Čapek, K. Růžicka, Thermal properties and homogeneity range of $\text{Bi}_{24+x}\text{Co}_{2-x}\text{O}_{39}$ ceramics, *Ceram.-Silik.*, 2013, **57**, 83–86.
10. Š. Huber, Z. Sofer, L. Nádherný, O. Jankovský, P. Šimek, D. Sedmidubský, M. Maryško, Synthesis and magnetic properties of Zn spinel ceramics, *Ceram.-Silik.*, 2013, **57**, 162–166.
11. O. Jankovský, D. Sedmidubský, Z. Sofer, K. Rubešová, K. Růžicka, P. Svoboda, Oxygen non-stoichiometry and thermodynamic properties of $\text{Bi}_2\text{Sr}_2\text{CoO}_{6+\delta}$ ceramic *J. Eur. Ceram. Soc.*, 2014, **34**, 1219–1225.
12. O. Jankovský, D. Sedmidubský, Z. Sofer, J. Leitner, K. Růžicka and P. Svoboda, Heat capacity, enthalpy and entropy of $\text{Sr}_{14}\text{Co}_{11}\text{O}_{33}$ and $\text{Sr}_6\text{Co}_5\text{O}_{15}$, *Thermochim. Acta*, 2014, **575**, 167–172.
13. O. Jankovský, P. Šimek, D. Sedmidubský, S. Matějková, Z. Janoušek, F. Šembera, M. Pumera, Z. Sofer, Water-soluble highly fluorinated graphite oxide, *RSC Advances*, 2014, **4**, 1378–1387.
14. Z. Sofer, O. Jankovský, P. Šimek, L. Soferová, D. Sedmidubský, M. Pumera, Highly hydrogenated graphene via active hydrogen reduction of graphene oxide in the aqueous phase at room temperature, *Nanoscale*, 2014, **6**, 2153–2160.
15. O. Jankovský, P. Šimek, D. Sedmidubský, Š. Huber, M. Pumera, Z. Sofer, Towards highly electrically conductive and thermally insulating graphene nanocomposites: Al_2O_3 –graphene *RSC Advances*, 2014, **4**, 7418–7424.
16. O. Jankovský, D. Sedmidubský, K. Rubešová, Z. Sofer, J. Leitner, K. Růžicka, P. Svoboda, Structure, non-stoichiometry and thermodynamic properties of $\text{Bi}_{1.85}\text{Sr}_2\text{Co}_{1.85}\text{O}_{7.7-\delta}$, ceramics, *Thermochim. Acta*, 2014, **582**, 40–45.
17. P. Šimek, Z. Sofer, O. Jankovský, D. Sedmidubský, M. Pumera, Oxygen-Free Highly Conductive Graphene Papers, *Adv. Funct. Mater.*, 2014, **24**, 4878–4885.
18. O. Jankovský, P. Šimek, K. Klímová, D. Sedmidubský, S. Matějková, M. Pumera, Z. Sofer, Towards graphene bromide: bromination of graphite oxide, *Nanoscale*, 2014, **6**, 6065–6074.
19. V. Bartůňek, Š. Huber, D. Sedmidubský, Z. Sofer, P. Šimek, O. Jankovský, CoO and Co_3O_4 nanoparticles with a tunable particle size, *Ceram. Int.*, 2014, **40**, 12591–12595.
20. C. H. A. Wong, O. Jankovský, Z. Sofer, M. Pumera, Vacuum-assisted microwave reduction/exfoliation of graphite oxide and the influence of precursor graphite oxide, *Carbon*, 2014, **77**, 508–517.

21. T. Hlášek, K. Rubešová, V. Jakeš, O. Jankovský, J. Oswald, Infrared luminescence in $\text{Er}^{3+}:\text{Yb}_3\text{Al}_5\text{O}_{12}$ bulk ceramics prepared by sol–gel method *J. Eur. Ceram. Soc.*, 2014, **34**, 3779–3782.
22. Z. Sofer, O. Jankovský, P. Šimek, K. Klímová, A. Macková, M. Pumera, Uranium- and Thorium-Doped Graphene for Efficient Oxygen and Hydrogen Peroxide Reduction, *ACS Nano*, 2014, **8**, 7106–7114.
23. C. S. Lim, C. K. Chua, Z. Sofer, O. Jankovský, M. Pumera, Alternating Misfit Layered Transition/Alkaline Earth Metal Chalcogenide $\text{Ca}_3\text{Co}_4\text{O}_9$ as a New Class of Chalcogenide Materials for Hydrogen Evolution *Chem. Mater.*, 2014, **26**, 4130–4136.
24. O. Jankovský, Š. Huber, D. Sedmidubský, L. Nádherný, T. Hlášek, Z. Sofer, Towards highly efficient thermoelectrics: $\text{Ca}_3\text{Co}_4\text{O}_{9+\delta} \cdot n \text{CaZrO}_3$ composite, *Ceram.-Silikáty*, 2014, **58**, 106–110.
25. O. Jankovský, D. Sedmidubský, Š. Huber, P. Šimek, Z. Sofer, Synthesis, magnetic and transport properties of oxygen-free CrN ceramics, *J. Eur. Ceram. Soc.*, 2014, **34**, 4131–4136.
26. O. Jankovský, Š. Hrdličková Kučková, M. Pumera, P. Šimek, D. Sedmidubský, Z. Sofer, Carbon fragments are ripped off from graphite oxide sheets during their thermal reduction, *New J. Chem.*, 2014, **38**, 5700–5705.
27. Z. Sofer, P. Šimek, D. Sedmidubský, O. Jankovský, P. Beran, M. Pumera, Neutron diffraction as a precise and reliable method for obtaining structural properties of bulk quantities of graphene, *Nanoscale*, 2014, **6**, 13082–13089.
28. P. Šimek, D. Sedmidubský, K. Klímová, Š. Huber, P. Brázda, M. Mikulics, O. Jankovský, Z. Sofer, Synthesis of InN nanoparticles by rapid thermal ammonolysis, *J. Nanopart. Res.*, 2014, **16**, 2805–2816.
29. L. Nádherný, O. Jankovský, Z. Sofer, J. Leitner, Ch. Martin, D. Sedmidubský, Phase equilibria in the Zn–Mn–O system, *J. Eur. Ceram. Soc.*, 2015, **35**, 555–560.
30. O. Jankovský, D. Sedmidubský, J. Vitek, P. Šimek, Z. Sofer, Phase diagram of the Sr–Co–O system, *J. Eur. Ceram. Soc.*, 2015, **35**, 935–940.
31. P. Šimek, K. Klímová, D. Sedmidubský, O. Jankovský, M. Pumera, Zdeněk Sofer, Towards graphene iodide: Iodination of graphite oxide, *Nanoscale*, 2015, **7**, 261–270.
32. O. Jankovský, D. Sedmidubský, Z. Sofer, J. Luxa, V. Bartůněk, Simple synthesis of Cr_2O_3 nanoparticles with a tunable particle size, *Ceram. Int.*, 2015, **41**, 4644–4650.
33. O. Jankovský, Z. Sofer, J. Vitek, P. Šimek, K. Růžicka, P. Svoboda, D. Sedmidubský, Structure, oxygen non-stoichiometry and thermal properties of $(\text{Bi}_{0.4}\text{Sr}_{0.6})\text{Sr}_2\text{CoO}_{5-\delta}$, *Thermochim. Acta*, 2015, **600**, 89–94.
34. O. Jankovský, D. Sedmidubský, P. Šimek, Z. Sofer, P. Ulbrich, V. Bartůněk, Synthesis of MnO, Mn_2O_3 and Mn_3O_4 nanocrystal clusters by thermal decomposition of manganese glycerolate, *Ceram. Int.*, 2015, **41**, 595–601.
35. Ch. K. Chua, Z. Sofer, Ch. S. Lim, O. Jankovský, M. Pumera, Misfit-layered $\text{Bi}_{1.85}\text{Sr}_2\text{Co}_{1.85}\text{O}_{7.7-\delta}$ for hydrogen evolution reaction: Beyond van der Waals heterostructures, *ChemPhysChem*, 2015, **16**, 769–774.
36. O. Jankovský, P. Šimek, M. Nováček, J. Luxa, D. Sedmidubský, M. Pumera, A. Macková, R. Mikšova and Z. Sofer, Use of deuterium labelling—evidence of graphene hydrogenation by reduction of graphite oxide using aluminium in sodium hydroxide, *RSC Adv.*, 2015, **5**, 18733–18739.
37. O. Jankovský, Z. Sofer, J. Vitek, P. Šimek, K. Růžicka, S. Mašková and D. Sedmidubský, Thermodynamic properties of tubular cobaltite $\text{Bi}_{3.7}\text{Sr}_{11.4}\text{Co}_8\text{O}_{29-\delta}$, *Thermochim. Acta*, 2015, **605**, 22–27.
38. Ch. S. Lim, L. Wang, Ch. K. Chua, Z. Sofer, O. Jankovský, M. Pumera, High temperature superconducting materials as bifunctional catalysts for hydrogen evolution and oxygen reduction, *J. Mater. Chem. A*, 2015, **3**, 8346–52.
39. Ch. K. Chua, Z. Sofer, P. Šimek, O. Jankovský, K. Klímová, S. Bakardjieva, Š. Hrdličková Kučková, M. Pumera, Synthesis of Strongly Fluorescent Graphene Quantum Dots by Cage-Opening Buckminsterfullerene, *ACS Nano*, 2015, **9**, 2548.

40. O. Jankovský, P. Šimek, K. Klímová, D. Sedmidubský, M. Pumera, Z. Sofer, Highly selective removal of Ga^{3+} ions from $\text{Al}^{3+}/\text{Ga}^{3+}$ mixtures using graphite oxide, *Carbon*, 2015, **89**, 121–129.
41. Z. Sofer, O. Jankovský, P. Šimek, D. Sedmidubský, J. Šturala, J. Kosina, R. Mikšová, A. Macková, M. Mikulics, M. Pumera, Insight into the Mechanism of the Thermal Reduction of Graphite Oxide: Deuterium-Labeled Graphite Oxide is the Key, *ACS Nano*, 2015, **9**, 5478–5485.
42. O. Jankovský, Z. Sofer, J. Vítek, M. Nováček, T. Hlášek, D. Sedmidubský, Phase equilibria in the Bi-Sr-Co-O system: towards the material tailoring of thermoelectric cobaltites, *J. Eur. Ceram. Soc.*, 2015, **35**, 3005–3012.
43. O. Jankovský, P. Šimek, J. Luxa, D. Sedmidubský, I. Tomandl, A. Macková, R. Mikšová, P. Malinský, M. Pumera and Z. Sofer, Definitive insight in the Graphite oxide reduction mechanism via deuterium labeling, *ChemPlusChem*, 2015, **80**, 1399–1407.
44. Z. Sofer, O. Jankovský, A. Libánská, P. Šimek, J. Luxa, D. Sedmidubský, A. Macková, R. Mikšová, M. Pumera, Definitive proof of graphene hydrogenation by Clemmensen reduction: use of deuterium labeling, *Nanoscale*, 2015, **7**, 10535–10543.
45. V. Mazánek, O. Jankovský, J. Luxa, D. Sedmidubský, Z. Janoušek, F. Šembera, M. Mikulics, Z. Sofer, Tuning of Fluorine Content in Graphene: Towards Large Scale Production of Stoichiometric Fluorographene, *Nanoscale*, 2015, **7**, 13646–13655.
46. O. Jankovský, D. Sedmidubský, P. Šimek, K. Klímová, D. Bouša, Ch. Boothroyd, A. Macková, Z. Sofer, Separation of thorium ions from wolframite and scandium concentrates using graphene oxide, *Phys. Chem. Chem. Phys.*, 2015, **17**, 25272–25277.
47. D. Bouša, O. Jankovský, D. Sedmidubský, J. Šturala, M. Pumera, Z. Sofer, Mesomeric effect of graphene modified by diazonium salts: substituent type and position influences its properties, *Chem. Eur. J.*, 2015, **21**, 17728 – 17738.
48. J. Mokry, O. Jankovský, J. Luxa, D. Sedmidubský, Heat capacity, entropy, oxygen non-stoichiometry and magnetic properties of cobalt sillenite $\text{Bi}_{24}\text{Co}_2\text{O}_{39-6}$, *Thermochim. Acta*, 2015, **619**, 26–31.
49. Ch. S. Lim, Z. Sofer, O. Jankovský, H. Wang, M. Pumera, Electrochemical properties of layered SnO and PbO for energy applications, *RSC Adv.*, 2015, **5**, 101949–101958.
50. J. Luxa, O. Jankovský, D. Sedmidubský, R. Medlín, M. Maryško, M. Pumera, Z. Sofer, Origin of exotic ferromagnetic behavior in exfoliated layered transition metal dichalcogenides MoS_2 and WS_2 , *Nanoscale*, 2016, **8**, 1960–1967.
51. D. Bouša, J. Luxa, D. Sedmidubský, Š. Huber, O. Jankovský, M. Pumera, Z. Sofer, Nanosized graphane ($\text{C}_{1\text{H}1.14}$)_n by hydrogenation of carbon nanofibers by Birch reduction method, *RSC Adv.*, 2016, **6**, 6475–6485.
52. O. Jankovský, A. Libánská, D. Bouša, D. Sedmidubský, S. Matějková, Z. Sofer, Partially Hydrogenated Graphene Materials Exhibit High Electrocatalytic Activities Related to Unintentional Doping with Metallic Impurities, *Chem. Eur. J.*, 2016, **22**, 8627–8634 (highlighted in ChemistryViews)
53. O. Jankovský, J. Kovařík, J. Leitner, K. Růžicka, D. Sedmidubský, Thermodynamic properties of stoichiometric lithium cobaltite LiCoO_2 , *Thermochim. Acta*, 2016, **634**, 26.
54. T. Hlášek, V. Polák, K. Rubešová, V. Jakeš, P. Nekvindová, O. Jankovský, D. Mikolášová, J. Oswald, Sol–gel-derived planar waveguides of $\text{Er}^{3+}:\text{Yb}_3\text{Al}_5\text{O}_{12}$ prepared by a polyvinylpyrrolidone-based method, *J. Sol-Gel Sci.*, 2016, **80**, 531–537.
55. V. Bartůňek, D. Průcha, M. Švecová, P. Ulbrich, Š. Huber, D. Sedmidubský, O. Jankovský, Ultrafine ferromagnetic iron oxide nanoparticles: Facile synthesis by low temperature decomposition of iron glycerolate, *Mater. Chem. Phys.*, **180**, 2016, 272.
56. Z. Sofer, J. Luxa, O. Jankovsky, D. Sedmidubsky, T. Bystron, M. Pumera, Synthesis of Graphene Oxide by Oxidation of Graphite with Ferrate(VI) Compounds: Myth or Reality?, *Angew. Chem. Int. Ed.*, 2016, **55**, 11965–11969.
57. D. Bouša, J. Luxa, V. Mazánek, O. Jankovský, D. Sedmidubský, K. Klímová, M. Pumera, Z. Sofer, Toward graphene chloride: chlorination of graphene and graphene oxide, *RSC Adv.*, **6**, 2016, 66884–66892.

58. O. Jankovský, P. Marvan, M. Nováček, J. Luxa, V. Mazánek, K. Klímová, D. Sedmidubský, Z. Sofer, Synthesis procedure and type of graphite oxide strongly influence resulting graphene properties, *Appl. Mat. Today*, 2016, **4**, 45–53.
59. J. Fořt, M. Pavlíková, M. Záleská, Z. Pavlík, A. Trník, O. Jankovský, Preparation of puzzolana active two component composite for latent heat storage, *Ceram.-Silikáty* 2016, **60**, 291–298.
60. O. Jankovský, M. Nováček, J. Luxa, D. Sedmidubský, V. Fila, M. Pumera, Z. Sofer, The new member of graphene family - graphene acid, *Chem. Eur.*, 2016, **22**, 17416-17424 (highlighted in ChemistryViews).
61. Š. Huber, O. Jankovský, D. Sedmidubský, J. Luxa, K. Klímová, J. Hejtmánek, Z. Sofer, Synthesis, structure, thermal, transport and magnetic properties of VN ceramics *Ceram. Int.*, 2016, **42**, 18779-18784.
62. O. Jankovský, V. Mazánek, K. Klímová, D. Sedmidubský, J. Kosina, M. Pumera, Z. Sofer, Simple Synthesis of Fluorinated Graphene: Thermal Exfoliation of Fluorographite, *Chem. Eur. J.*, 2016, **22**, 17696-17703.
63. K. Klímová, M. Pumera, J. Luxa, O. Jankovský, D. Sedmidubský, S. Matějková, Z. Sofer, Graphene Oxide Sorption Capacity Towards Elements over the Whole Periodic Table – a Comparative Study, *J. Phys. Chem. C*, 2016, **120**, 24203–24212.
64. O. Jankovský, M. Lojka, M. Nováček, J. Luxa, D. Sedmidubský, M. Pumera, J. Kosina, Z. Sofer, Reducing emission of carcinogenic by-products in the production of thermally reduced graphene oxide, *Green Chem.*, 2016, **18**, 6618-6629.
65. J. Pinc, O. Jankovský, V. Bartůňek, Preparation of manganese oxide nanoparticles by thermal decomposition of nanostructured manganese carbonate, *Chem. Pap.*, 2017, **71**, 1031–1035.
66. M. Pižl, O. Jankovský, P. Ulbrich, N. Szabo, I. Hoskovcova, D. Sedmidubský, V. Bartůňek, Facile preparation of nanosized yttrium oxide by the thermal decomposition of amorphous Schiff base yttrium complex precursor, *J. Organomet. Chem.*, 2017, **830**, 146-149.
67. V. Bartůňek, Š. Huber, J. Luxa, Z. Sofer, M. Kuchař, K. Dobrovolný, O. Jankovský, Facile Synthesis of Magnetic Cobalt Nano-foam by Low-temperature Thermal Decomposition of Cobalt Glycerolate, *Micro & Nano Letters*, 2017, **12**, 278 – 280.
68. M. Nováček, O. Jankovský, J. Luxa, D. Sedmidubský, M. Pumera, V. Fila, M. Lhotka, K. Klímová, S. Matějková, Z. Sofer, Tuning of graphene oxide composition by multiple oxidations for carbon dioxide storage and capture of toxic metals, *J. Mater. Chem. A*, 2017, **5**, 2739-2748.
69. O. Jankovský, M. Nováček, J. Luxa, D. Sedmidubský, M. Boháčová, M. Pumera, Z. Sofer, Concentration of Nitric Acid Strongly Influences Chemical Composition of Graphite Oxide, *Chem. Eur. J.*, 2017, **23**, 6432-6440.
70. O. Jankovský, M. Lojka, J. Luxa, D. Sedmidubský, O. Tomanec, R. Zbořil, M. Pumera, Z. Sofer, Selective Bromination of Graphene Oxide by the Hunsdiecker Reaction, *Chem. Eur. J.*, 2017, **23**, 10473–10479.
71. O. Jankovský, V. Rach, D. Sedmidubský, Š. Huber, P. Ulbrich, M. Švecová, V. Bartůňek, Simple synthesis of free surface nanostructured spinel NiFe_2O_4 with a tunable particle size, *J. Alloy. Comp.*, 2017, **723**, 58-63.
72. O. Jankovský, Z. Sofer, J. Kovařík, K. Růžicka, J. Leitner, D. Sedmidubský, Thermodynamic properties of misfit cobaltite $[\text{Bi}_{2-x}\text{Ca}_x\text{O}_4][\text{CoO}_2]_{1.7}$, *Thermochim. Acta*, 2017, **656**, 129-134.
73. O. Jankovský, M. Pavlíková, D. Sedmidubský, D. Bouša, M. Lojka, J. Pokorný, M. Záleská, Z. Pavlík, Study on pozzolana activity of wheat straw ash as potential admixture for blended cements, *Ceramics-Silikáty*, 2017, **61**, 327-339.
74. O. Jankovský, A. Jiříčková, J. Luxa, D. Sedmidubský, M. Pumera, Z. Sofer, Z.. Fast Synthesis of Highly Oxidized Graphene Oxide, *ChemistrySelect*, 2017, **2**, 9000-9006.
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Patents (PP and PUV)

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