

András Sági PhD. – Curriculum Vitae

Personal data

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Qualification: Chemist, Teacher of Chemistry, English-Hungarian professional (chemist) interpreter
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Training

2022- *Associate Professor, University of Szeged, Hungary*
2014- Assistant Professor, University of Szeged, Hungary
2012 - 2014: Postdoc, University of Berkeley, California, USA
2009 – 2012: Assistant lecturer, University of Szeged, Hungary
2007- 2012: PhD in Chemistry, Faculty of Sciences, University of Szeged, Hungary
2004 – 2007: Teacher of Chemistry; Faculty of Sciences, University of Szeged, Hungary
2003 - 2007: English-Hungarian professional (chemist) interpreter; Faculty of Sciences, University of Szeged, Hungary
2001 - 2007: Chemist; Faculty of Sciences, University of Szeged, Hungary

Publications&Teaching

- >100 registered publications (Cumulative impact factor: ~300, Citation (without self-citation): ~1600, H-index: 27), 3 book chapters, 1 book, 2 patents, ~50 posters, 10 invited lecture, 5 keynote lecture, >50 oral presentations
- >50 Thesis, project and plan work supervision of Chemist BSc & MSc, Chemical Engineer MSc, Environmental Sciences BSc & MSc, Environmental Engineer BSc & MSc and Material Science BSc Students

Awards

SzTE Best Young Researcher Price (2022), SzTE TTIK Scientific Price (2021), Innovation Medal of Southern Region of Hungary (2020), Innovation Medal of Szeged (2020), Dr. Paál Zoltán Catalyst Medal (2017), Hungarian Academy of Sciences, “NanoDemo”, *Idea award (2011)*, XXVIII. OTDK, Szeged *1. award + Extra award of Magyary Zoltán Foundation (2007)*

Projects

2022-2026: RRF-2.3.1-21-2022-00009: National Laboratory of Renewable Energies – Environmental Catalysis and Li-ion Battery Group Leader
2022-2025: GINOP_PLUSZ-2.1.1-21-2022-00046: Ceramics with High HeatShock Resistance - Supervisor
2020-2023: Erasmus+ - EAC/A02/2019 619413-EPP-1-2020-1-HU-EPPKA2-CBHE-JP – TACMEE – Senior Researcher
2020-2021: National Excellence Program
2020-2023: Bolyai Foundation Award
2020-2023: 2019-2.1.13-TÉT_IN-2020-00015, Stroncium-titanát nanostruktúrák CO₂ hasznosítására: egy lépéssel közelebb a szénmentes környezethez – Senior Researcher
2020-2022: 2019-2.1.11-TÉT-2019-00090, Nem szokványos katalizátor hordozókkal egy Zöldebb jövőért: Hangolható hierarchikus pórusú polimerek alkalmazása kontrollált méretű fém nanorészecskék hordozójaként CO aktiválási és C-C formálási reakciókban – Project Leader
2020-2023: PIACI-KFI-2019-00349, Hierarchikus kamraszerkezetű, kompozit, expandált polisztirol termékek, és gyártástechnológiájuk kifejlesztése – Project Leader
2019-2021: EFOP-3.6.1-16-2016-00014 azonosító számú „Diszruptív technológiák kutatásfejlesztése az e-mobility területén és integrálásuk a mérnökképzésbe” – Senior Researcher
2017 – 2020: GiNOP 2.2.1. : Industrial Gas treatment based on zeolites – Project Leader
2016 - 2017: ÚNKP-2016-4: 5 nm Pt/Mezopórusos NiO *in-situ* atomi és molekuláris szintű vizsgálata CO₂ hidrogénezési reakcióban – Project Leader
2016 – 2019: TÉT_15_IN-1-2016-0013: Új típusú BiOX (X = Cl, Br, I) BiOX kompozitok környezetbarát előállítás, immobilizálása aktív szénszál/kerámia papír felületén hatékony és újrahasznosítható fotokatalitikus felületek kialakítására – Senior Researcher
2016 – 2019: OTKA PD: Using interfaces of Pt/CoO_x Janus nanoparticles and other complex structures for heterogeneous catalytic CO₂ and ethanol activation – Project Leader
2015-2018: OTKA NKFI-6: Interactions between ferroelectric core-shell nanospheres and autocatalytic front reactions – Towards developing combined visual/RFID sensor labels utilizing pH-change based responses – Senior researcher
2012-2014: University of California (Berkeley), Lawrence Berkeley National Laboratories, Material Science Division, Surface Chemical Department: Supervising research on alcohol oxidation
2010-2012: EC FP7 "THEMA-CNT": Coordination of Low-temperature CNT growing
2006-2009: EC FP6 STREP "SANES": Functionalization of CNT surfaces

Patents

2014, Gel Composition for cleaning pipes and pipelines and the use thereof (HU1400300 and WO2014203014); 2012 Photocatalytic material (WO2012052624)

Last five years' research interests

- Synthesis and characterization of Controlled size metallic nanoparticles and 3D mesoporous oxide materials
- Heterogeneous catalytic reactions and other surface chemical processes (e.g. CO₂ activation, electro photochemistry, sensors etc.) on designed nanostructured catalysts
- Molecular level exploration of surfaces under reaction conditions with DRIFTS and NAP-XPS techniques
- Exhaust system development by catalysis

Professional Attendances

Material Science, Nanotechnology, Nanoparticles, Organic and inorganic one-dimensional nanostructures, Carbon nanotubes, Titanate nanostructures, Heterogenous catalysis, Surface science