

Candidate application to the ISGS Board of Directors

Prof. / Dr.



Age: 56

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CV with main research interests (no longer than 1/2 page)

Gulaim A. Seisenbaeva received her PhD degree in inorganic chemistry in 1989 from the Moscow State University. She worked in the industries after graduation and was appointed a Senior Researcher at the Moscow State Academy of Fine Chemical Technology in 1993. She made her postdoc work at Stockholm University in 1996. Since 2000 she is Senior Researcher at SLU in Uppsala, Sweden, where she obtained her Habilitation degree in Materials Chemistry in 2004. Her major research focus is on precursor-directed synthesis and characterization of porous nanomaterials with application in production of new energy sources, catalysts and functional inorganic and hybrid adsorbents for environmental protection and hydrometallurgy. She has co-authored over 130 peer-reviewed scientific publications and 5 patents. Gulaim is actively fostering industrial collaborations in Sweden and internationally and has actively participated in organization of symposia and popular scientific events.

5 recent publications

- 1) Novel approach to rhenium oxide catalysts for selective oxidation of methanol to DMM, OA Nikonova, M Capron, G Fang, J Faye, AS Mamede, L Jalowiecki-Duhamel, F Dumeignil, **GA Seisenbaeva**, Journal of catalysis **2011** 279 (2), 310-318.
- 2) High surface area ordered mesoporous nano-titania by a rapid surfactant-free approach, **GA Seisenbaeva**, G Daniel, JM Nedelec, YK Gun'ko, VG Kessler, Journal of Materials Chemistry **2012** 22 (38), 20374-20380.

- 3) Mesoporous Anatase TiO₂ Nanorods as Thermally Robust Anode Materials for Li - Ion Batteries: Detailed Insight into the Formation Mechanism, **GA Seisenbaeva**, JM Nedelec, G Daniel, C Tiseanu, V Parvulescu, VG Pol, L Abrego, VG Kessler, Chemistry–A European Journal **2013** 19 (51), 17439-17444
- 4) Unusual seeding mechanism for enhanced performance in solid-phase magnetic extraction of Rare Earth Elements, EP Legaria, J Rocha, CW Tai, VG Kessler, **GA Seisenbaeva**, Scientific Reports **2017**, 7: 43740.
Highlighted in Materials Research Bulletin: <https://www.cambridge.org/core/journals/mrs-bulletin/news/easy-environmentally-friendly-method-to-unearth-rare-earth-elements?platform=hootsuite>
- 5) The EURARE Project: Development of a Sustainable Exploitation Scheme for Europe's Rare Earth Ore Deposits, E Balomenos, P Davris, E Dedy, J Yang, D Panias, B Friedrich, K Binnemans, **G Seisenbaeva**, C Dittrich, P Kalvig, I Paspaliaris, Johnson Matthey Technology Review **2017** 61 (2), 142-153.

Statement of interest

I would be happy to work for the growth of our society, both geographically (using my contacts in Eastern Europe and Asia) and in new application fields. I hope also to be able to provide help in organization of research courses, schools and conferences.