

### **Transparent Yb<sup>3+</sup> doped phosphate glass-ceramics**

Hongisto, M., Veber, A., Boetti, N. G., Danto, S., Jubera, V. & Petit, L., 1 Jan 2020, In : *Ceramics International*.

Research output: Contribution to journal > Article > Scientific > peer-review

### **In-flight wind field identification and prediction of parafoil systems**

Gao, H., Tao, J., Dehmer, M., Emmert-Streib, F., Sun, Q., Chen, Z., Xie, G. & Zhou, Q., 2020, In : *Applied Sciences (Switzerland)*. 10, 6, 15 p., 1958.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Mining tailings as raw materials for reaction-sintered aluminosilicate ceramics: Effect of mineralogical composition on microstructure and properties**

Karhu, M., Lagerbom, J., Solismaa, S., Honkanen, M., Ismailov, A., Räisänen, M. L., Huttunen-Saarivirta, E., Levänen, E. & Kivikytö-Reponen, P., Mar 2019, In : *Ceramics International*. 45, 4, p. 4840-4848

Research output: Contribution to journal > Article > Scientific > peer-review

### **Cost-optimal energy performance measures in a new daycare building in cold climate**

Sankelo, P., Jokisalo, J., Nyman, J., Vinha, J. & Sirén, K., 2019, In : *International Journal of Sustainable Energy*. 38, 2, p. 104-122 19 p.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Effect of apartment building energy renovation on hourly power demand**

Hirvonen, J., Jokisalo, J., Heljo, J. & Kosonen, R., 2019, In : *International Journal of Sustainable Energy*.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Towards the EU emissions targets of 2050: optimal energy renovation measures of Finnish apartment buildings**

Hirvonen, J., Jokisalo, J., Heljo, J. & Kosonen, R., 2019, In : *International Journal of Sustainable Energy*. 38, 7

Research output: Contribution to journal > Article > Scientific > peer-review

### **Volatile fatty acid adsorption on anion exchange resins: kinetics and selective recovery of acetic acid**

Eregowda, T., Rene, E. R., Rintala, J. & Lens, P. N. L., 2019, In : *Separation Science and Technology (Philadelphia)*.

Research output: Contribution to journal > Article > Scientific > peer-review

### **The effect of carbon and nickel additions on the precursor synthesis of Cr<sub>3</sub>C<sub>2</sub>-Ni nanopowder**

Kaunisto, K., Kotilainen, M., Karhu, M., Lagerbom, J., Vuorinen, T., Honkanen, M., Vippola, M. & Turunen, E., 1 Jun 2018, In : *Ceramics International*. 44, 8, p. 9338-9346

Research output: Contribution to journal > Article > Scientific > peer-review

### **Influence of the phosphate glass melt on the corrosion of functional particles occurring during the preparation of glass-ceramics**

Ojha, N., Laihin, T., Salminen, T., Lastusaari, M. & Petit, L., Jun 2018, In : *Ceramics International*. 44, 10, p. 11807-11811

Research output: Contribution to journal > Article > Scientific > peer-review

### **The effects of laser patterning 10CeTZP-Al<sub>2</sub>O<sub>3</sub> nanocomposite disc surfaces: Osseous differentiation and cellular arrangement in vitro**

Goyos-Ball, L., Prado, C., Díaz, R., Fernández, E., Ismailov, A., Kumpulainen, T., Levänen, E., Torrecillas, R. & Fernández, A., Jun 2018, In : *Ceramics International*. 44, 8, p. 9472-9478

Research output: Contribution to journal > Article > Scientific > peer-review

### **Aqueous synthesis of Z-scheme photocatalyst powders and thin-film photoanodes from earth abundant elements**

Šutka, A., Vanags, M., Joost, U., Šmits, K., Ruža, J., Ločs, J., Kleperis, J. & Juhna, T., 1 Apr 2018, In : *Journal of Environmental Chemical Engineering*. 6, 2, p. 2606-2615 10 p.

Research output: Contribution to journal > Article > Scientific > peer-review

### **Deactivation of Pt/SiO<sub>2</sub>-ZrO<sub>2</sub> diesel oxidation catalysts by sulphur, phosphorus and their combinations**

Väliheikki, A., Kärkkäinen, M., Honkanen, M., Heikkinen, O., Kolli, T., Kallinen, K., Huuhtanen, M., Vippola, M., Lahtinen, J. & Keiski, R. L., 5 Dec 2017, In : *Applied Catalysis B-Environmental*. 218, p. 409-419 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Photodynamic self-disinfecting surface using pyridinium phthalocyanine**

George, L., Müller, A., Röder, B., Santala, V. & Efimov, A., 1 Dec 2017, In : Dyes and Pigments. 147, p. 334-342 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**New Evidence for the Mechanism of Action of a Type-2 Diabetes Drug Using a Magnetic Bead-Based Automated Biosensing Platform**

Uddin, R., Nur-E-Habiba, N., Rena, G., Hwu, E. T. & Boisen, A., 22 Sep 2017, In : ACS Sensors. 2, 9, p. 1329-1336 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Accelerated deactivation studies of the natural-gas oxidation catalyst-Verifying the role of sulfur and elevated temperature in catalyst aging**

Honkanen, M., Kärkkäinen, M., Kolli, T., Heikkinen, O., Viitanen, V., Zeng, L., Jiang, H., Kallinen, K., Huuhtanen, M., Keiski, R. L., Lahtinen, J., Olsson, E. & Vippola, M., 2016, In : Applied Catalysis B-Environmental. p. 439-448 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Metrics for polyphonic sound event detection**

Mesaros, A., Heittola, T. & Virtanen, T., 2016, In : Applied Sciences. 6, 6, 162.

Research output: Contribution to journal › Article › Scientific › peer-review

**Enhanced photoactive and photoelectrochemical properties of TiO<sub>2</sub> sol-gel coated steel by the application of SiO<sub>2</sub> intermediate layer**

Nikkanen, J. P., Huttunen-Saarivirta, E., Salminen, T., Hyvärinen, L., Honkanen, M., Isotahdon, E., Heinonen, S. & Levänen, E., 1 Sep 2015, In : Applied Catalysis B-Environmental. 174-175, p. 533-543 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Evaluation of crushing strength of spray-dried MgAl<sub>2</sub>O<sub>4</sub> granule beds**

Kanerva, U., Suhonen, T., Lagerbom, J. & Levänen, E., 1 Aug 2015, In : Ceramics International. 41, 7, p. 8494-8500 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**A facile route to synthesis of S-doped TiO<sub>2</sub> nanoparticles for photocatalytic activity**

McManamon, C., O'Connell, J., Delaney, P., Rasappa, S., Holmes, J. D. & Morris, M. A., 30 May 2015, In : Journal of Molecular Catalysis A: Chemical. 406, p. 51-57!

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**Large-area arrays of three-dimensional plasmonic subwavelength-sized structures from azopolymer surface-relief gratings**

Moerland, R. J., Koskela, J. E., Kravchenko, A., Simberg, M., Van Der Vegte, S., Kaivola, M., Priimagi, A. & Ras, R. H. A., 1 Jan 2014, In : Materials Horizons. 1, 1, p. 74-80 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Effects of storage on characteristics and hygienic quality of digestates from four co-digestion concepts of manure and biowaste**

Paavola, T. & Rintala, J., Oct 2008, In : Bioresource Technology. 99, 15, p. 7041-7050 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Storing energy crops for methane production: Effects of solids content and biological additive**

Pakarinen, O., Lehtomäki, A., Rissanen, S. & Rintala, J., Oct 2008, In : Bioresource Technology. 99, 15, p. 7074-7082 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Group-specific quantification of methanotrophs in landfill gas-purged laboratory biofilters by tyramide signal amplification-fluorescence in situ hybridization**

Wang, H., Einola, J., Heinonen, M., Kulomaa, M. & Rintala, J., Sep 2008, In : Bioresource Technology. 99, 14, p. 6426-6433 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Anaerobic digestion of grass silage in batch leach bed processes for methane production**

Lehtomäki, A., Huttunen, S., Lehtinen, T. M. & Rintala, J. A., May 2008, In : Bioresource Technology. 99, 8, p. 3267-3278 12 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Leachate and gaseous emissions from initial phases of landfilling mechanically and mechanically-biologically treated municipal solid waste residuals**

Sormunen, K., Einola, J., Ettala, M. & Rintala, J., May 2008, In : Bioresource Technology. 99, 7, p. 2399-2409 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Effects of solid-liquid separation on recovering residual methane and nitrogen from digested dairy cow manure**

Kaparaju, P. L. N. & Rintala, J. A., Jan 2008, In : Bioresource Technology. 99, 1, p. 120-127 8 p.

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**Anaerobic on-site treatment of kitchen waste in combination with black water in UASB-septic tanks at low temperatures**

Luostarinen, S. & Rintala, J., Jul 2007, In : Bioresource Technology. 98, 9, p. 1734-1740 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Hydrolysis rates, methane production and nitrogen solubilisation of grey waste components during anaerobic degradation**

Jokela, J. P. Y., Vavilin, V. A. & Rintala, J. A., Mar 2005, In : Bioresource Technology. 96, 4, p. 501-508 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Modeling solid waste decomposition**

Vavilin, V. A., Lokshina, L. Y., Jokela, J. P. Y. & Rintala, J. A., Aug 2004, In : Bioresource Technology. 94, 1, p. 69-81 13 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Comparison of laboratory-scale thermophilic biofilm and activated sludge processes integrated with a mesophilic activated sludge process**

Suvilampi, J., Lehtomäki, A. & Rintala, J., Jul 2003, In : Bioresource Technology. 88, 3, p. 207-214 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Anaerobic digestion of organic solid poultry slaughterhouse waste - A review**

Salminen, E. & Rintala, J., 2002, In : Bioresource Technology. 83, 1, p. 13-26 14 p.

Research output: Contribution to journal › Article › Scientific › peer-review

**Anaerobically digested poultry slaughterhouse wastes as fertiliser in agriculture**

Salminen, E., Rintala, J., Härkönen, J., Kuitunen, M., Högmänder, H. & Oikari, A., 2001, In : Bioresource Technology. 78, 1, p. 81-88 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review