# Ivan Jirka

List of Publications by Year
in descending order

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| 50 | 1,047 | 394421 | 414414 |
|---|---|---|---|
| papers | citations | 19 h-index | 32 g-index |

| 50 | 50 | 50 | 1535 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Applications of zeolites in biotechnology and medicine â€“ a review. Biomaterials Science, 2018, 6, 974-989. | 5.4 | 196 |
| 2 | The electrocatalytic behavior of Ru0.8Co0.2O2â^'xâ€"the effect of particle shape and surface composition. Electrochimica Acta, 2008, 53, 2656-2664. | 5.2 | 69 |
| 3 | On the role of Nb-related sites of an oxidized Î²-TiNb alloy surface in its interaction with osteoblast-like MG-63 cells. Materials Science and Engineering C, 2013, 33, 1636-1645. | 7.3 | 63 |
| 4 | Layered Double Hydroxides with Intercalated Porphyrins as Photofunctional Materials:Â Subtle Structural Changes Modify Singlet Oxygen Production. Chemistry of Materials, 2007, 19, 3822-3829. | 6.7 | 58 |
| 5 | An ESCA study of copper clusters on carbon. Surface Science, 1990, 232, 307-315. | 1.9 | 57 |
| 6 | Interaction of Human Osteoblast-Like Saos-2 and MG-63 Cells with Thermally Oxidized Surfaces of a Titanium-Niobium Alloy. PLoS ONE, 2014, 9, e100475. | 2.5 | 47 |
| 7 | A method for electrochemical growth of homogeneous nanocrystalline ZnO thin films at room temperature. Electrochimica Acta, 2009, 54, 7558-7564. | 5.2 | 46 |
| 8 | Catalytic Properties of 3D Graphene-Like Microporous Carbons Synthesized in a Zeolite Template. ACS Catalysis, 2018, 8, 1779-1789. | 11.2 | 40 |
| 9 | Surface reaction kinetics of NO on Rh{110}. Journal of Chemical Physics, 1994, 100, 8471-8482. | 3.0 | 37 |
| 10 | Inorganicâ^'Organic Hybrid Materials: Layered Zinc Hydroxide Salts with Intercalated Porphyrin Sensitizers. Journal of Physical Chemistry C, 2010, 114, 16321-16328. | 3.1 | 35 |
| 11 | ESCA study of Cu2+-Y and Cu2+-ZSM-5. Zeolites, 1991, 11, 77-80. | 0.5 | 29 |
| 12 | Towards an oscillation mechanism for the NO-CO reaction on Rhã€^110ã€‰: NO dissociation kinetics and oxygen subsurface diffusion. Surface Science, 1995, 331-333, 23-29. | 1.9 | 27 |
| 13 | In situ Raman spectroelectrochemistry of graphene oxide. Physica Status Solidi (B): Basic Research, 2013, 250, 2662-2667. | 1.5 | 26 |
| 14 | Low-temperature thermal removal of template from high silica ZSM-5. Catalytic effect of zeolitic framework. Microporous and Mesoporous Materials, 2011, 137, 8-17. | 4.4 | 24 |
| 15 | Electrochemical Doping of Compact TiO<sub>2</sub> Thin Layers. Journal of Physical Chemistry C, 2014, 118, 25970-25977. | 3.1 | 24 |
| 16 | Facile synthesis of CuO nanosheets via the controlled delamination of layered copper hydroxide acetate. Journal of Colloid and Interface Science, 2015, 452, 174-179. | 9.4 | 23 |
| 17 | Acetone Conversion and Deactivation of Zeolites. Studies in Surface Science and Catalysis, 1989, 49, 1203-1212. | 1.5 | 21 |
| 18 | A study of the preparation and properties of copper-containing optical planar glass waveguides. Solid State Ionics, 2001, 141-142, 609-615. | 2.7 | 21 |

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|---|---|---|---|
| 19 | Combined silica sources to prepare preferentially oriented silicalite-1 layers on various supports. Microporous and Mesoporous Materials, 2013, 174, 154-162. | 4.4 | 20 |
| 20 | In situ scanning of surface reaction kinetics: NO dissociation on Rh{110}. Surface Science, 1993, 297, L100-L103. | 1.9 | 15 |
| 21 | Effect of plasma composition on nanocrystalline diamond layers deposited by a microwave linear antenna plasmaâ€enhanced chemical vapour deposition system. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2418-2423. | 1.8 | 15 |
| 22 | Ion Exchange of NH4â^'Ferrierite with Co2+:â€‰ ESCA Study. Journal of Physical Chemistry B, 2001, 105, 1140-1148. | 2.6 | 14 |
| 23 | On the Removal of Template from Silicalite-1 90Â° Intergrowths. A Study by X-ray Photoelectron Spectroscopy. Langmuir, 2002, 18, 1702-1706. | 3.5 | 13 |
| 24 | Static in-situ hydrothermal synthesis of small pore zeolite SSZ-16 (AFX) using heated and pre-aged synthesis mixtures. Microporous and Mesoporous Materials, 2016, 228, 107-115. | 4.4 | 12 |
| 25 | Esca Study of Incorporation of Copper into Y Zeolite. Studies in Surface Science and Catalysis, 1991, 69, 269-276. | 1.5 | 11 |
| 26 | Initial and Final State Effects in the Photoelectron and Auger Spectra of Si and Al Bonded in Zeolitesâ€. Journal of Physical Chemistry B, 1997, 101, 8133-8140. | 2.6 | 11 |
| 27 | Copper Doped Waveguides in Glass Substrates. Fiber and Integrated Optics, 2002, 21, 63-74. | 2.5 | 10 |
| 28 | Interaction of human osteoblast-like Saos-2 cells with stainless steel coated by silicalite-1 films. Materials Science and Engineering C, 2017, 76, 775-781. | 7.3 | 10 |
| 29 | Electrochemical Behavior of Nanocrystalline Ru[sub 0.8]Me[sub 0.2]O[sub 2â^'x] (Me=Fe,â€,Co,â€,Ni) Oxide Electrodes in Double-Layer Region. Journal of the Electrochemical Society, 2007, 154, A1077. | 2.9 | 7 |
| 30 | Interaction of silicalite-1 film with human osteoblast-like Saos-2 cells: The role of micro-morphology. Materials Letters, 2017, 190, 229-231. | 2.6 | 7 |
| 31 | Fluorination of graphene leads to susceptibility for nanopore formation by highly charged ion impact. Physical Review Materials, 2021, 5, . | 2.4 | 7 |
| 32 | Silicalite-1 Layers as a Biocompatible Nano- and Micro-Structured Coating: An In Vitro Study on MG-63 Cells. Materials, 2019, 12, 3583. | 2.9 | 6 |
| 33 | Template removal from polycrystalline silicalite-1 self-supporting layer. Materials Chemistry and Physics, 2005, 90, 116-122. | 4.0 | 5 |
| 34 | Protective Sliding Carbon-Based Nanolayers Prepared by Argon or Nitrogen Ion-Beam Assisted Deposition on Ti6Al4V Alloy. Journal of Nanomaterials, 2016, 2016, 1-9. | 2.7 | 5 |
| 35 | Heat treatment dependent cytotoxicity of silicalite-1 films deposited on Ti-6Al-4V alloy evaluated by bone-derived cells. Scientific Reports, 2020, 10, 9456. | 3.3 | 5 |
| 36 | Thermal Removal of Ammonia from Mordenite. Journal of Catalysis, 2001, 200, 345-351. | 6.2 | 4 |

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|---|---|---|---|
| 37 | Metalâ€“support interactions in systems palladium deposited on oxidized tungsten surfaces. Surface Science, 2006, 600, 3943-3949. | 1.9 | 4 |
| 38 | The Photodynamic Properties and the Genotoxicity of Heat-Treated Silicalite-1 Films. Materials, 2019, 12, 567. | 2.9 | 4 |
| 39 | Electrochemical monitoring of metal ions removal in Fe0/H2O systems: competitive effects of cations Zn2+, Pb2+, and Cd2+. Monatshefte FÃ¼r Chemie, 2020, 151, 1511-1523. | 1.8 | 4 |
| 40 | Interaction of copper with oxygen on amorphous carbon surface. Applied Surface Science, 1989, 40, 135-143. | 6.1 | 3 |
| 41 | Interaction of CO with Palladium Supported on Oxidized Tungsten. Journal of Physical Chemistry B, 2006, 110, 23837-23844. | 2.6 | 3 |
| 42 | Interaction of ethylene with palladium clusters supported on oxidised tungsten foil. Surface Science, 2007, 601, 3114-3124. | 1.9 | 3 |
| 43 | Influence of Si/Al ratio on Auger line intensities of zeolites. Zeolites, 1996, 17, 310-313. | 0.5 | 2 |
| 44 | Electron-Spectroscopic Studies of Thermal Stability of Pd/Nb Surfaces. European Physical Journal D, 2003, 53, 11-17. | 0.4 | 2 |
| 45 | REMOVAL OF DIQUATERNARY AMMONIUM CATIONS FROM AS-SYNTHESIZED SSZ-16 ZEOLITE. Acta Polytechnica CTU Proceedings, 2017, 9, 26. | 0.3 | 1 |
| 46 | Reversible Lectin Binding to Glycan-Functionalized Graphene. International Journal of Molecular Sciences, 2021, 22, 6661. | 4.1 | 1 |
| 47 | Copper-doped waveguides in glass substrates. , 2001, 4277, 367. | | 0 |
| 48 | Mathematical modelling of multicomponent transport in composite all-ceramic membranes containing a zeolitic phase. Studies in Surface Science and Catalysis, 2008, 174, 737-740. | 1.5 | 0 |
| 49 | Characterization of electro-eroded surface of Ti alloys. Journal of Physics: Conference Series, 2008, 100, 012004. | 0.4 | 0 |
| 50 | Interaction of Niobium with Polycrystalline Palladium Surface. X-ray Photoemission Study. Collection of Czechoslovak Chemical Communications, 2008, 73, 1314-1326. | 1.0 | 0 |