

# Jan Plátek

## List of Publications by Year in descending order

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30  
papers

314  
citations

1039880

9  
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887953

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g-index

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all docs

30  
docs citations

30  
times ranked

612  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the role of Nb-related sites of an oxidized $\hat{I}^2$ -TiNb alloy surface in its interaction with osteoblast-like MG-63 cells. <i>Materials Science and Engineering C</i> , 2013, 33, 1636-1645.	3.8	63
2	Remarkably enhanced density and specific activity of active sites in Al-rich Cu-, Fe- and Co-beta zeolites for selective catalytic reduction of NOx. <i>Applied Catalysis B: Environmental</i> , 2016, 189, 65-74.	10.8	37
3	Immobilized rGO/TiO <sub>2</sub> Photocatalyst for Decontamination of Water. <i>Catalysts</i> , 2019, 9, 708.	1.6	25
4	Laser-ablation-assisted SF <sub>6</sub> decomposition for extensive and controlled fluorination of graphene. <i>Carbon</i> , 2019, 145, 419-425.	5.4	25
5	Decomposition of Fluorinated Graphene under Heat Treatment. <i>Chemistry - A European Journal</i> , 2016, 22, 8990-8997.	1.7	19
6	Extended characterization methods for covalent functionalization of graphene on copper. <i>Carbon</i> , 2017, 118, 200-207.	5.4	19
7	Tuning the Reactivity of Graphene by Surface Phase Orientation. <i>Chemistry - A European Journal</i> , 2017, 23, 1839-1845.	1.7	15
8	Properties of physisorbed water layers on gold revealed in a FEM study. <i>Applied Surface Science</i> , 2005, 252, 1553-1560.	3.1	12
9	Interaction of human osteoblast-like Saos-2 cells with stainless steel coated by silicalite-1 films. <i>Materials Science and Engineering C</i> , 2017, 76, 775-781.	3.8	10
10	Influence of structural properties on (de-)intercalation of ClO <sub>4</sub> <sup>-</sup> anion in graphite from concentrated aqueous electrolyte. <i>Carbon</i> , 2022, 186, 612-623.	5.4	10
11	Large scale chemical functionalization of locally curved graphene with nanometer resolution. <i>Carbon</i> , 2020, 164, 207-214.	5.4	9
12	Pulsed laser deposition of bimetallic gold-platinum nanoparticles on cerium oxide and their characterisation by X-ray photoelectron spectroscopy and temperature-programmed desorption of isotopically labelled carbon monoxide. <i>Journal of Catalysis</i> , 2013, 299, 109-118.	3.1	8
13	Field emission study of metal-oxide-metal systems. <i>Applied Surface Science</i> , 2001, 171, 157-174.	3.1	7
14	Interaction of silicalite-1 film with human osteoblast-like Saos-2 cells: The role of micro-morphology. <i>Materials Letters</i> , 2017, 190, 229-231.	1.3	7
15	Thermal Stability of Au/NbOx/Nb and Au/Nb <sub>2</sub> O <sub>5</sub> /W Model Catalysts Studied by Angle-Resolved X-Ray Photoelectron Spectroscopy. <i>Collection of Czechoslovak Chemical Communications</i> , 2003, 68, 1791-1804.	1.0	5
16	Spontaneous Adsorption of a Co-Phthalocyanine Ionic Derivative on HOPG. An In Situ EPR Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4198-4206.	1.5	5
17	Thermal Removal of Ammonia from Mordenite. <i>Journal of Catalysis</i> , 2001, 200, 345-351.	3.1	4
18	Metal-support interactions in systems palladium deposited on oxidized tungsten surfaces. <i>Surface Science</i> , 2006, 600, 3943-3949.	0.8	4

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19	Polyamic acid: nanoprecipitation and electrophoretic deposition on porous supports. Journal of Coatings Technology Research, 2018, 15, 489-496.	1.2	4
20	Towards Catalytically Active Porous Graphene Membranes with Pulsed Laser Deposited Ceria Nanoparticles. Chemistry - A European Journal, 2021, 27, 4150-4158.	1.7	4
21	Role of Energy Dissipation and Surface Mobility in Heterogeneous Catalysis by Metals. Collection of Czechoslovak Chemical Communications, 1998, 63, 1851-1868.	1.0	4
22	Interaction of CO with Palladium Supported on Oxidized Tungsten. Journal of Physical Chemistry B, 2006, 110, 23837-23844.	1.2	3
23	Interaction of ethylene with palladium clusters supported on oxidised tungsten foil. Surface Science, 2007, 601, 3114-3124.	0.8	3
24	Preparation of Au-Pt Nanostructures on Highly Oriented Pyrolytic Graphite Surfaces by Pulsed Laser Deposition and Their Characterization by XPS and AFM Methods. Collection of Czechoslovak Chemical Communications, 2008, 73, 1299-1313.	1.0	3
25	The use of sample positioning to control defect creation by oxygen plasma in isotopically labelled bilayer graphene membranes. RSC Advances, 2021, 11, 10316-10322.	1.7	3
26	The "Average" Work Function and Emission Area in the Fowler-Nordheim Equation. European Physical Journal D, 2002, 52, 1335-1348.	0.4	2
27	Carbon Monoxide Chemisorption and Disproportionation on Thin Palladium Layers, Supported by Niobium and Niobium Pentoxide. Collection of Czechoslovak Chemical Communications, 2003, 68, 1833-1847.	1.0	2
28	Field emission study of pulsed laser deposition of gold on clean and oxidized tungsten tip. Applied Surface Science, 2014, 292, 717-725.	3.1	1
29	Electrophoretic Deposition of Zeolites Focused on Attendant Electrodecentration and Subsequent Growth of Electric Current. ChemistrySelect, 2019, 4, 3185-3190.	0.7	1
30	FEM and FIM Study of Reaction Zones on Platinum. Collection of Czechoslovak Chemical Communications, 1997, 62, 213-217.	1.0	0