

# Ekaterina D Grayfer

## List of Publications by Year in descending order

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27  
papers

1,011  
citations

623734

14  
h-index

610901

24  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1862  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Pt-Decorated Boron Nitride Nanosheets as Artificial Nanozyme for Detection of Dopamine. ACS Applied Materials & Interfaces, 2019, 11, 22102-22112.   | 8.0  | 166       |
| 2  | Colloidal 2D nanosheets of MoS <sub>2</sub> and other transition metal dichalcogenides through liquid-phase exfoliation. Advances in Colloid and Interface Science, 2017, 245, 40-61.  | 14.7 | 143       |
| 3  | Functionalization and Dispersion of Hexagonal Boron Nitride (h-BN) Nanosheets Treated with Inorganic Reagents. Chemistry - an Asian Journal, 2012, 7, 554-560.   | 3.3  | 116       |
| 4  | Synthesis, Crystal Structure, and Colloidal Dispersions of Vanadium Tetrasulfide (VS <sub>4</sub> ). Chemistry - A European Journal, 2015, 21, 4639-4645.  | 3.3  | 76        |
| 5  | The synthesis and properties of highly exfoliated graphites from fluorinated graphite intercalation compounds. Carbon, 2011, 49, 3233-3241.  | 10.3 | 69        |
| 6  | Graphene: chemical approaches to the synthesis and modification. Russian Chemical Reviews, 2011, 80, 751-770.  | 6.5  | 60        |
| 7  | Anionic Redox Chemistry in Polysulfide Electrode Materials for Rechargeable Batteries. ChemSusChem, 2017, 10, 4805-4811.   | 6.8  | 56        |
| 8  | Chemically modified graphene sheets by functionalization of highly exfoliated graphite. Journal of Materials Chemistry, 2011, 21, 3410-3414.   | 6.7  | 52        |
| 9  | The effect of support properties on the activity of Pd/C catalysts in the liquid-phase hydrodechlorination of chlorobenzene. Applied Catalysis A: General, 2010, 379, 87-94.   | 4.3  | 37        |
| 10 | Ultradisperse Pt nanoparticles anchored on defect sites in oxygen-free few-layer graphene and their catalytic properties in CO oxidation. Carbon, 2015, 89, 290-299.   | 10.3 | 37        |
| 11 | Colloidal solutions of niobium trisulfide and niobium triselenide. Journal of Materials Chemistry C, 2014, 2, 5479-5486.   | 5.5  | 34        |
| 12 | Hexamolybdenum Clusters Supported on Exfoliated h-BN Nanosheets for Photocatalytic Water Purification. Inorganic Chemistry, 2020, 59, 6439-6448.   | 4.0  | 33        |
| 13 | Synthesis, Properties, and Dispersion of Few-Layer Graphene Fluoride. Chemistry - an Asian Journal, 2013, 8, 2015-2022.  | 3.3  | 27        |
| 14 | Oxidizing Properties of the Polysulfide Surfaces of Patronite VS <sub>4</sub> and NbS <sub>3</sub> Induced by (S <sub>2</sub> ) <sup>2+</sup> Groups: Unusual Formation of Ag <sub>2</sub> S Nanoparticles. Advanced Materials Interfaces, 2017, 4, 1700999. | 3.7  | 19        |
| 15 | Highly Exfoliated Graphite Fluoride as a Precursor for Graphene Fluoride Dispersions and Films. Croatica Chemica Acta, 0, , 107-112.   | 0.4  | 15        |
| 16 | A DFT study and experimental evidence of the sonication-induced cleavage of molybdenum sulfide Mo <sub>2</sub> S <sub>3</sub> in liquids. Journal of Materials Chemistry C, 2017, 5, 6601-6610.  | 5.5  | 13        |
| 17 | Photoluminescent nanographitic/nitrogen-doped graphitic hollow shells as a potential candidate for biological applications. Journal of Materials Chemistry B, 2013, 1, 1229.   | 5.8  | 12        |
| 18 | Theoretical and experimental comparative study of the stability and phase transformations of sesquichalcogenides M <sub>2</sub> Q <sub>3</sub> (M = Nb, Mo; Q = S, Se). Physical Chemistry Chemical Physics, 2019, 21, 1454-1463.                            | 2.8  | 11        |

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|----|---|-----|-----------|
| 19 | Liquid-phase hydrodechlorination of chlorobenzene by molecular hydrogen: The influence of reaction medium on process efficiency. <i>Pure and Applied Chemistry</i> , 2009, 81, 2107-2114. | 1.9 | 7         |
| 20 | Metal Polysulfides of Groups 4-6: From Bulk Samples to Nanoscale Materials. <i>Journal of Structural Chemistry</i> , 2018, 59, 913-921.   | 1.0 | 6         |
| 21 | Revealing the Flexible 1D Primary and Globular Secondary Structures of Sulfur-Rich Amorphous Transition Metal Polysulfides. <i>ChemNanoMat</i> , 2019, 5, 1488-1497.                      | 2.8 | 6         |
| 22 | Thermal and kinetic studies of sulfur-rich molybdenum and tungsten polysulfides. <i>Journal of Alloys and Compounds</i> , 2021, 851, 156705.  | 5.5 | 6         |
| 23 | Metal-metal bond excitation in colloidal solution of NbS <sub>3</sub> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 179, 46-50.                  | 3.9 | 4         |
| 24 | Microwave exfoliation of organic-intercalated fluorographites. <i>Chemical Communications</i> , 2020, 56, 1895-1898.  | 4.1 | 4         |
| 25 | Amorphous pentasulfides MS <sub>5</sub> (M=Mo, W) in reactions with thiuram disulfide and halogens. <i>Inorganica Chimica Acta</i> , 2020, 512, 119875.                                   | 2.4 | 2         |
| 26 | Highly exfoliated graphite as a precursor for graphene materials. , 2010, , .   |     | 0         |
| 27 | Graphene dispersion and graphene paper from highly exfoliated graphite. , 2011, , .   |     | 0         |