

# Vasyl Kravets

## List of Publications by Citations

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18  
papers

2,819  
citations

13  
h-index

20  
g-index

20  
ext. papers

3,441  
ext. citations

17.2  
avg, IF

5.23  
L-index

#	Paper	IF	Citations
18	Extremely narrow plasmon resonances based on diffraction coupling of localized plasmons in arrays of metallic nanoparticles. <i>Physical Review Letters</i> , <b>2008</b> , 101, 087403	7.4	541
17	Plasmonic Surface Lattice Resonances: A Review of Properties and Applications. <i>Chemical Reviews</i> , <b>2018</b> , 118, 5912-5951	68.1	517
16	Impermeable barrier films and protective coatings based on reduced graphene oxide. <i>Nature Communications</i> , <b>2014</b> , 5, 4843	17.4	410
15	Ultrathin graphene-based membrane with precise molecular sieving and ultrafast solvent permeation. <i>Nature Materials</i> , <b>2017</b> , 16, 1198-1202	27	383
14	Singular phase nano-optics in plasmonic metamaterials for label-free single-molecule detection. <i>Nature Materials</i> , <b>2013</b> , 12, 304-9	27	311
13	Electrically controlled water permeation through graphene oxide membranes. <i>Nature</i> , <b>2018</b> , 559, 236-240	40.4	177
12	Graphene-protected copper and silver plasmonics. <i>Scientific Reports</i> , <b>2014</b> , 4, 5517	4.9	143
11	Sensitivity of collective plasmon modes of gold nanoresonators to local environment. <i>Optics Letters</i> , <b>2010</b> , 35, 956-8	3	118
10	Hierarchical self-assembly of a bulk metamaterial enables isotropic magnetic permeability at optical frequencies. <i>Materials Horizons</i> , <b>2016</b> , 3, 596-601	14.4	50
9	Giant optical anisotropy in transition metal dichalcogenides for next-generation photonics. <i>Nature Communications</i> , <b>2021</b> , 12, 854	17.4	41
8	Cascaded optical field enhancement in composite plasmonic nanostructures. <i>Physical Review Letters</i> , <b>2010</b> , 105, 246806	7.4	33
7	Layered material platform for surface plasmon resonance biosensing. <i>Scientific Reports</i> , <b>2019</b> , 9, 20286	4.9	33
6	Composite Au nanostructures for fluorescence studies in visible light. <i>Nano Letters</i> , <b>2010</b> , 10, 874-9	11.5	30
5	Fine structure constant and quantized optical transparency of plasmonic nanoarrays. <i>Nature Communications</i> , <b>2012</b> , 3, 640	17.4	12
4	Nanomechanical electro-optical modulator based on atomic heterostructures. <i>Nature Communications</i> , <b>2016</b> , 7, 13590	17.4	8
3	New class of photocatalytic materials and a novel principle for efficient water splitting under infrared and visible light: MgB <sub>2</sub> as unexpected example. <i>Optics Express</i> , <b>2015</b> , 23, A1651-63	3.3	5
2	Topological phase singularities in atomically thin high-refractive-index materials. <i>Nature Communications</i> , <b>2022</b> , 13, 2049	17.4	5

- 1 Metallic binary alloyed superconductors for photogenerating current from dissociated water molecules using broad light spectra. *Journal of Renewable and Sustainable Energy*, **2017**, 9, 021201 2.5 2