

# K Christian Kemp

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

8,631  
citations

304368

22  
h-index

476904

29  
g-index

31  
all docs

31  
docs citations

31  
times ranked

15027  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionalization of Graphene: Covalent and Non-Covalent Approaches, Derivatives and Applications. Chemical Reviews, 2012, 112, 6156-6214.	23.0	3,531
2	Noncovalent Functionalization of Graphene and Graphene Oxide for Energy Materials, Biosensing, Catalytic, and Biomedical Applications. Chemical Reviews, 2016, 116, 5464-5519.	23.0	1,942
3	Environmental applications using graphene composites: water remediation and gas adsorption. Nanoscale, 2013, 5, 3149.	2.8	472
4	Engineered Carbon-Nanomaterial-Based Electrochemical Sensors for Biomolecules. ACS Nano, 2016, 10, 46-80.	7.3	433
5	Reduced graphene oxide-based hydrogels for the efficient capture of dye pollutants from aqueous solutions. Carbon, 2013, 56, 173-182.	5.4	409
6	Graphene-SnO <sub>2</sub> composites for highly efficient photocatalytic degradation of methylene blue under sunlight. Nanotechnology, 2012, 23, 355705.	1.3	233
7	Highly selective CO <sub>2</sub> capture by S-doped microporous carbon materials. Carbon, 2014, 66, 320-326.	5.4	230
8	Stable platinum nanoclusters on genomic DNA-graphene oxide with a high oxygen reduction reaction activity. Nature Communications, 2013, 4, 2221.	5.8	169
9	Iron-Oxide-Supported Nanocarbon in Lithium-Ion Batteries, Medical, Catalytic, and Environmental Applications. ACS Nano, 2014, 8, 7571-7612.	7.3	157
10	Highly Stable CO <sub>2</sub> /N <sub>2</sub> and CO <sub>2</sub> /CH <sub>4</sub> Selectivity in Hyper-Cross-Linked Heterocyclic Porous Polymers. ACS Applied Materials & Interfaces, 2014, 6, 7325-7333.	4.0	151
11	Synthesis of nano zerovalent iron nanoparticles-graphene composite for the treatment of lead contaminated water. Journal of Environmental Management, 2013, 130, 429-435.	3.8	129
12	Homogeneous anchoring of TiO <sub>2</sub> nanoparticles on graphene sheets for waste water treatment. Materials Letters, 2012, 81, 127-130.	1.3	116
13	Highly Selective and Stable Carbon Dioxide Uptake in Polyindole-Derived Microporous Carbon Materials. Environmental Science & Technology, 2013, 47, 5467-5473.	4.6	80
14	Interconnected Pt-Nanodendrite/DNA/Reduced-Graphene-Oxide Hybrid Showing Remarkable Oxygen Reduction Activity and Stability. ACS Nano, 2013, 7, 9223-9231.	7.3	79
15	Reversible CO <sub>2</sub> adsorption by an activated nitrogen doped graphene/polyaniline material. Nanotechnology, 2013, 24, 235703.	1.3	75
16	Antimony(III) Sulfide Thin Films as a Photoanode Material in Photocatalytic Water Splitting. ACS Applied Materials & Interfaces, 2016, 8, 8445-8451.	4.0	73
17	Synthesis of N-doped microporous carbon via chemical activation of polyindole-modified graphene oxide sheets for selective carbon dioxide adsorption. Nanotechnology, 2013, 24, 255702.	1.3	62
18	Ruthenocene-Containing $\beta^2$ -Diketones: Synthesis, p <i>K</i> <sub>a</sub> Values, Keto-Enol Isomerization Kinetics, and Electrochemical Aspects. Organometallics, 2008, 27, 353-362.	1.1	59

#	ARTICLE	IF	CITATIONS
19	Activated carbon derived from waste coffee grounds for stable methane storage. <i>Nanotechnology</i> , 2015, 26, 385602.	1.3	49
20	Zeolites ZSM-25 and PST-20: Selective Carbon Dioxide Adsorbents at High Pressures. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3404-3409.	1.5	46
21	CO <sub>2</sub> Adsorption in the RHO Family of Embedded Isorecticular Zeolites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28815-28824.	1.5	37
22	Silver ZK-5 zeolites for selective ethylene/ethane separation. <i>Separation and Purification Technology</i> , 2020, 250, 117146.	3.9	22
23	Solution-processable conductive micro-hydrogels of nanoparticle/graphene platelets produced by reversible self-assembly and aqueous exfoliation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12900.	5.2	18
24	Propylene/propane separation on a ferroaluminosilicate lewyne zeolite. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109833.	2.2	12
25	Silver-exchanged CHA zeolite as a CO <sub>2</sub> -resistant adsorbent for N <sub>2</sub> /O <sub>2</sub> separation. <i>Microporous and Mesoporous Materials</i> , 2021, 323, 111239.	2.2	11
26	Small Gas Adsorption and Separation in Small-Pore Zeolites. <i>Structure and Bonding</i> , 2020, , 1-30.	1.0	10
27	Nanocrystalline Ag-ZK-5 zeolite for selective CH <sub>4</sub> /N <sub>2</sub> separation. <i>Separation and Purification Technology</i> , 2022, 282, 120027.	3.9	10
28	Dealuminated Cs-ZK-5 zeolite for propylene/propane separation. <i>Chemical Engineering Journal</i> , 2021, 413, 127422.	6.6	9
29	Direct Synthesis of Ge-free IWR-type Zeolites. <i>Chemistry Letters</i> , 2019, 48, 1445-1447.	0.7	2
30	NextGenVOICES. <i>Science</i> , 2013, 340, 28-30.	6.0	1