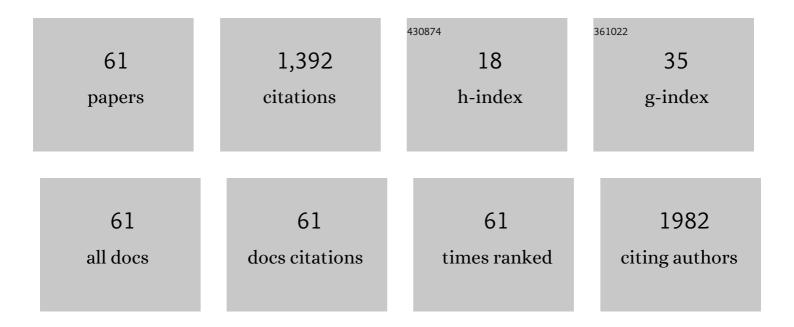
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Selective adsorption of organic dyes on graphene oxide: Theoretical and experimental analysis. Applied Surface Science, 2019, 464, 170-177.	6.1	189
2	Synthesis of B-doped graphene quantum dots as a metal-free electrocatalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2017, 5, 10537-10543.	10.3	178
3	Novel Graphene Hydrogel/Bâ€Doped Graphene Quantum Dots Composites as Trifunctional Electrocatalysts for Znâ~Air Batteries and Overall Water Splitting. Advanced Energy Materials, 2019, 9, 1900945.	19.5	150
4	Exploiting Diffusion Barrier and Chemical Affinity of Metal–Organic Frameworks for Efficient Hydrogen Isotope Separation. Journal of the American Chemical Society, 2017, 139, 15135-15141.	13.7	125
5	Specific Isotope-Responsive Breathing Transition in Flexible Metal–Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 13278-13282.	13.7	47
6	Initial Experience of Robot-Assisted Radical Cystectomy with Total Intracorporeal Urinary Diversion: Comparison with Extracorporeal Method. Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A, 2012, 22, 456-462.	1.0	43
7	Investigating Polaron Formation in Anatase and Brookite TiO ₂ by Density Functional Theory with Hybrid-Functional and DFT + <i>U</i> Methods. ACS Omega, 2019, 4, 8056-8064.	3.5	34
8	Adsorption mechanisms of lithium oxides (LixO2) on a graphene-based electrode: A density functional theory approach. Applied Surface Science, 2015, 351, 193-202.	6.1	30
9	Engineering Oxidation States of a Platinum Cocatalyst over Chemically Oxidized Graphitic Carbon Nitride Photocatalysts for Photocatalytic Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2021, 9, 14537-14549.	6.7	30
10	Robot-Assisted Radical Cystectomy and Pelvic Lymph Node Dissection: A Multi-Institutional Study from Korea. Journal of Endourology, 2010, 24, 1435-1440.	2.1	29
11	First principles assessment of perovskite dopants for proton conductors with chemical stability and high conductivity. RSC Advances, 2013, 3, 3333.	3.6	28
12	Exploiting the Specific Isotope-Selective Adsorption of Metal–Organic Framework for Hydrogen Isotope Separation. Journal of the American Chemical Society, 2021, 143, 8232-8236.	13.7	26
13	Catalytic activity of Ni3Mo surfaces for hydrogen evolution reaction: A density functional theory approach. Applied Surface Science, 2021, 537, 147894.	6.1	25
14	First-principles studies of K1â^'xMxMgH3 (MÂ=ÂLi, Na, Rb, or Cs) perovskite hydrides for hydrogen storage. International Journal of Hydrogen Energy, 2018, 43, 2232-2236.	7.1	24
15	Adsorption mechanisms of lithium oxides (LixO2) on N-doped graphene: a density functional theory study with implications for lithium–air batteries. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	22
16	Characterizing chemical stability and proton conductivity of B-site doped barium hafnate (BaHfO3) and barium stannate (BaSnO3) with first principles modeling. Journal of Alloys and Compounds, 2017, 693, 738-743.	5.5	22
17	Lessons learned from 12,000 robotic radical prostatectomies: Is the journey as important as the outcome?. Investigative and Clinical Urology, 2020, 61, 1.	2.0	20
18	Firstâ€principles investigation of chemical stability and proton conductivity of Mâ€doped BaZrO ₃ (M=K, Rb, and Cs). Journal of the American Ceramic Society, 2017, 100, 2997-3003.	3.8	19

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19	Catalytic performance of graphene quantum dot supported manganese phthalocyanine for efficient oxygen reduction: density functional theory approach. New Journal of Chemistry, 2019, 43, 348-355.	2.8	19
20	Understanding CO ₂ Adsorption on a M ₁ (M ₂)-Promoted (Doped) MgO–CaO(100) Surface (M ₁ = Li, Na, K, and Rb, M ₂ = Sr): A DFT Theoretical Study. ACS Sustainable Chemistry and Engineering, 2019, 7, 16979-16984.	6.7	18
21	Do HOMO–LUMO Energy Levels and Band Gaps Provide Sufficient Understanding of Dye-Sensitizer Activity Trends for Water Purification?. ACS Omega, 2020, 5, 15052-15062.	3.5	18
22	Overall rate, location, and predictive factors for positive surgical margins after robot-assisted laparoscopic radical prostatectomy for high-risk prostate cancer. Asian Journal of Andrology, 2016, 18, 123.	1.6	18
23	Coordinated Molecule-Modulated Magnetic Phase with Metamagnetism in Metal–Organic Frameworks. Inorganic Chemistry, 2019, 58, 8895-8899.	4.0	17
24	Do patients benefit from total intracorporeal robotic radical cystectomy?: A comparative analysis with extracorporeal robotic radical cystectomy from a Korean multicenter study. Investigative and Clinical Urology, 2020, 61, 11.	2.0	17
25	Identifying Metal Alloys with High Hydrogen Permeability Using High Throughput Theory and Experimental Testing. Journal of Physical Chemistry Letters, 2011, 2, 3040-3044.	4.6	16
26	Does Surgeon Subjective Nerve Sparing Score Predict Recovery Time of Erectile Function Following Robot-Assisted Radical Prostatectomy?. Journal of Sexual Medicine, 2015, 12, 1490-1496.	0.6	14
27	Exploring the geometric, magnetic and electronic properties of Hofmann MOFs for drug delivery. Physical Chemistry Chemical Physics, 2017, 19, 31316-31324.	2.8	14
28	Designing Pt-based subsurface alloy catalysts for the dehydrogenation of perhydro-dibenzyltoluene: A first-principles study. Applied Surface Science, 2022, 579, 152142.	6.1	13
29	Theoretical Insight into M ₁ TPyP–M ₂ (M ₁ , M ₂ = Fe, Co) MOFs: Correlation between Electronic Structure and Catalytic Activity Extending to Potentiality in Capturing Flue Gases. Journal of Physical Chemistry C, 2018, 122, 9899-9908.	3.1	11
30	Electrochemical Oxygen-Reduction Activity and Carbon Monoxide Tolerance of Iron Phthalocyanine Functionalized with Graphene Quantum Dots: A Density Functional Theory Approach. Journal of Physical Chemistry C, 2019, 123, 27483-27491.	3.1	10
31	First-Principles Computational Screening of Perovskite Hydrides for Hydrogen Release. ACS Combinatorial Science, 2019, 21, 736-742.	3.8	10
32	Oncological and functional outcomes of robot-assisted radical cystectomy in bladder cancer patients in a single tertiary center: Can these be preserved throughout the learning curve?. Investigative and Clinical Urology, 2019, 60, 463.	2.0	10
33	First principles studies of proton conduction in KTaO3. Journal of Chemical Physics, 2014, 141, 024707.	3.0	9
34	Facile synthesis and structural analysis of graphene oxide decorated with iron-cerium carbonate for visible-light driven rapid degradation of organic dyes. Journal of Environmental Chemical Engineering, 2018, 6, 2616-2626.	6.7	9
35	Assessment of M2O(111) (M = Li and Na) surfaces for CO2 adsorption based on first-principles calculations. Applied Surface Science, 2019, 486, 571-577.	6.1	9
36	Account of chemical bonding and enhanced reactivity of vanadium-doped rhodium clusters toward C–H activation: a DFT investigation. Physical Chemistry Chemical Physics, 2019, 21, 9935-9948.	2.8	8

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37	First-principles evaluation of the potential of using Mg2SiO4, Mg2VO4, and Mg2GeO4 for CO2 capture. Journal of CO2 Utilization, 2020, 42, 101293.	6.8	8
38	Hexagonal and Monoclinic Phases of La2O2CO3 Nanoparticles and Their Phase-Related CO2 Behavior. Nanomaterials, 2020, 10, 2061.	4.1	8
39	First-principles analysis of ferroelectric transition in MnSnO3 and MnTiO3 perovskites. Journal of Solid State Chemistry, 2018, 262, 251-255.	2.9	7
40	First-principles rational design of M-doped LiBH4(010) surface for hydrogen release: Role of strain and dopants (M=Na, K, Al, F, or Cl). International Journal of Hydrogen Energy, 2019, 44, 6065-6073.	7.1	7
41	Inherent Resistance of Seed-Mediated Grown MoSe ₂ Monolayers to Defect Formation. ACS Applied Materials & Interfaces, 2020, 12, 34297-34305.	8.0	7
42	First-principles prediction of NO2 and SO2 adsorption on MgO/(Mg0.5Ni0.5)O/MgO(1 0 0). Applied Surface Science, 2021, 566, 150650.	6.1	7
43	Ab-initio investigations for structural, mechanical, optoelectronic, and thermoelectric properties of Ba2SbXO6 (X Nb, Ta) compounds. Journal of Alloys and Compounds, 2022, 893, 162332.	5.5	7
44	Initial experience of single-port robot-assisted radical prostatectomy: A single surgeon's experience with technique description. Prostate International, 2022, 10, 85-91.	2.3	7
45	Predictions of Sulfur Resistance in Metal Membranes for H2 Purification Using First-Principles Calculations. Industrial & Engineering Chemistry Research, 2012, 51, 301-309.	3.7	6
46	First-principles examination of low tolerance factor perovskites. International Journal of Quantum Chemistry, 2017, 117, e25420.	2.0	6
47	A mechanistic insight into rhodium-doped gold clusters as a better hydrogenation catalyst. Nanoscale, 2020, 12, 5125-5138.	5.6	6
48	Single-Port <i>vs</i> Multiport Robot-Assisted Radical Prostatectomy: A Propensity Score Matching Comparative Study. Journal of Endourology, 2022, 36, 661-667.	2.1	6
49	Effect of intraoperative fluid volume on postoperative ileus after robot-assisted radical cystectomy. Scientific Reports, 2021, 11, 10522.	3.3	5
50	Oncologic Outcomes and Predictive Factors for Recurrence Following Robot-Assisted Radical Cystectomy for Urothelial Carcinoma: Multicenter Study from Korea. Journal of Korean Medical Science, 2017, 32, 1662.	2.5	4
51	Insight into the structure and bonding of copper(i) iodide clusters and a cluster-based coordination polymer. New Journal of Chemistry, 2019, 43, 16176-16187.	2.8	4
52	Firstâ€principles exploration of MgTi 2 O 5 and MgV 2 O 5 for CO 2 capture and conversion. International Journal of Quantum Chemistry, 2021, 121, e26637.	2.0	3
53	Low-hysteresis manganese hexacyanoferrate (MnHCF) aqueous battery for low-grade thermal energy harvesting. Journal of Power Sources, 2022, 524, 231080.	7.8	3
54	Identification of potential metal oxides for NO ₂ capture: A density functional theory study. Journal of the American Ceramic Society, 2022, 105, 5299-5308.	3.8	3

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55	BRCA1-associated protein 1 expression and prognostic role in prostate adenocarcinoma. Investigative and Clinical Urology, 2020, 61, 166.	2.0	2
56	Orientation-Dependent Conversion of VLS-Grown Lead Iodide Nanowires into Organic-Inorganic Hybrid Perovskites. Nanomaterials, 2021, 11, 223.	4.1	1
57	First-principles-assisted band gap predictions of methylammonium metal formates. Materials Research Bulletin, 2021, 138, 111239.	5.2	1
58	Theoretical investigation of metal oxides for SO 2 capture through firstâ€principles calculations. International Journal of Quantum Chemistry, 0, , e26822.	2.0	1
59	First-principles identification of ferroelectric metal-organic frameworks of [CH3NH3][B(HCOO)3] (B =) Tj ETQq1	1 9.78431	.4 ₁ gBT /Ove
60	Toggling Technique Allows Retrograde Early Release to Facilitate Neurovascular Bundle Sparing During Robot-Assisted Radical Prostatectomy: A Propensity Score-Matching Study. Journal of Korean Medical Science, 2022, 37, e6.	2.5	1
61	Gender-related outcomes in robot-assisted radical cystectomy: A multi-institutional study. Investigative and Clinical Urology, 2022, 63, 53.	2.0	Ο