

Jacek B Jasinski

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87

papers

1,681

citations

19

h-index

37

g-index

96

ext. papers

2,076

ext. citations

6.7

avg, IF

4.92

L-index

#	Paper	IF	Citations
87	Recent advances in synthesis, properties, and applications of phosphorene. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	183
86	Efficient hydrogen evolution in transition metal dichalcogenides via a simple one-step hydrazine reaction. <i>Nature Communications</i> , 2016 , 7, 11857	17.4	154
85	Surface properties of SnO ₂ nanowires for enhanced performance with dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2009 , 2, 1302	35.4	118
84	A low-noble-metal W ₁₈ Ir _x O ₃₃ water oxidation electrocatalyst for acidic media via rapid plasma synthesis. <i>Energy and Environmental Science</i> , 2017 , 10, 2432-2440	35.4	82
83	Kr/Xe Separation over a Chabazite Zeolite Membrane. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9791-4	16.4	75
82	Carboxybetaine, sulfobetaine, and cationic block copolymer coatings: A comparison of the surface properties and antibiofouling behavior. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 2154-2170	2.9	60
81	In Vivo Processing of Ceria Nanoparticles inside Liver: Impact on Free-Radical Scavenging Activity and Oxidative Stress. <i>ChemPlusChem</i> , 2014 , 79, 1083-1088	2.8	56
80	Tungsten oxide-coated copper oxide nanowire arrays for enhanced activity and durability with photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 15235	13	56
79	Fluorine-Enabled Cationic Gold Catalysis: Functionalized Hydration of Alkynes. <i>Angewandte Chemie</i> , 2010 , 122, 7405-7410	3.6	45
78	Selectivity and Reactivity of Alkylamine- and Alkanethiolate-Stabilized Pd and PdAg Nanoparticles for Hydrogenation and Isomerization of Allyl Alcohol. <i>ACS Catalysis</i> , 2012 , 2, 2602-2613	13.1	44
77	Progress toward Producing n-Type CdSe Quantum Dots: Tin and Indium Doped CdSe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13008-13015	3.8	42
76	Efficiency enhancement of cubic perovskite BaSnO ₃ nanostructures based dye sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8468-78	3.6	37
75	Optoacoustic imaging identifies ovarian cancer using a microenvironment targeted theranostic wormhole mesoporous silica nanoparticle. <i>Biomaterials</i> , 2018 , 182, 114-126	15.6	30
74	Intercalation as a versatile tool for fabrication, property tuning, and phase transitions in 2D materials. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	30
73	Catalytic Activity in Lithium-Treated Core-Shell MoO _x /MoS ₂ Nanowires. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22908-22914	3.8	26
72	Thin-Walled Carbon Microtubes as High-Capacity and High-Rate Anodes in Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10621-10627	3.8	26
71	Incommensurate Graphene Foam as a High Capacity Lithium Intercalation Anode. <i>Scientific Reports</i> , 2017 , 7, 39944	4.9	25

70	Growth of zeolitic imidazolate framework-8 crystals from the solid-liquid interface. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7684		25
69	Graphene-family nanomaterials assembled with cobalt oxides and cobalt nanoparticles as hybrid supercapacitive electrodes and enzymeless glucose detection platforms. <i>Journal of Materials Research</i> , 2017 , 32, 301-322	2.5	19
68	Scalable Arylation of Nitriles in Aqueous Micelles using Ultrasmall Pd Nanoparticles: Surprising Formation of Carbanions in Water. <i>ACS Catalysis</i> , 2020 , 10, 6816-6821	13.1	19
67	Microballs Containing Ni(0)Pd(0) Nanoparticles for Highly Selective Micellar Catalysis in Water. <i>ACS Catalysis</i> , 2019 , 9, 7520-7526	13.1	19
66	Chromatic Mechanical Response in 2-D Layered Transition Metal Dichalcogenide (TMDs) based Nanocomposites. <i>Scientific Reports</i> , 2016 , 6, 34831	4.9	18
65	Gold/Chitosan Nanocomposites with Specific Near Infrared Absorption for Photothermal Therapy Applications. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-9	3.2	18
64	In Situ XRD and TEM Studies of Sol-Gel-Based Synthesis of LiFePO ₄ . <i>Crystal Growth and Design</i> , 2016 , 16, 5006-5013	3.5	17
63	Large area synthesis of conical carbon nanotube arrays on graphite and tungsten foil substrates. <i>Carbon</i> , 2011 , 49, 2725-2734	10.4	17
62	Stable and Flexible Sulfide Composite Electrolyte for High-Performance Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 42653-42659	9.5	17
61	Bilayer phosphorene under high pressure: in situ Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 7298-7304	3.6	16
60	Novel graphene oxide/manganese oxide nanocomposites. <i>RSC Advances</i> , 2013 , 3, 22857	3.7	15
59	Exfoliated WS ₂ -Nafion Composite based Electromechanical Actuators. <i>Scientific Reports</i> , 2017 , 7, 14599	4.9	15
58	Thermally Stable Nanocrystalline Mesoporous Gallium Oxide Phases. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 3275-3281	2.3	15
57	Electrical transport properties of graphene nanowalls grown at low temperature using plasma enhanced chemical vapor deposition. <i>Materials Research Express</i> , 2017 , 4, 055007	1.7	14
56	Low-Temperature and Fast Kinetics for CO Sorption Using LiWO Nanowires. <i>Nano Letters</i> , 2018 , 18, 4891-4899	14.9	14
55	Blue to magenta tunable luminescence from LaGaO ₃ : Bi ³⁺ , Cr ³⁺ doped phosphors for field emission display applications. <i>RSC Advances</i> , 2017 , 7, 44915-44922	3.7	14
54	Simple synthesis of highly uniform bilayer-carbon nanocages. <i>Carbon</i> , 2017 , 115, 617-624	10.4	13
53	Unravelling the energy transfer mechanism in bismuth co-activation of LaInO ₃ :Sm ³⁺ /Ho ³⁺ nanophosphor for color-tunable luminescence. <i>RSC Advances</i> , 2017 , 7, 9724-9731	3.7	13

52	Organopolymer with dual chromophores and fast charge-transfer properties for sustainable photocatalysis. <i>Nature Communications</i> , 2019 , 10, 1837	17.4	13
51	Nanovalved Adsorbents for CH ₄ Storage. <i>Nano Letters</i> , 2016 , 16, 3309-13	11.5	13
50	Strain-induced vibrational properties of few layer black phosphorus and MoTe via Raman spectroscopy. <i>Nanotechnology</i> , 2020 , 31, 425707	3.4	12
49	Electrochemical Li Intercalation in Black Phosphorus: In Situ and Ex Situ Studies. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10710-10718	3.8	11
48	Electrical conductivity of Sr _{2-x} CaxFeMnO ₅ (x = 0, 1, 2). <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 2329-2338	2.6	11
47	CF _x primary batteries based on fluorinated carbon nanocages. <i>New Journal of Chemistry</i> , 2019 , 43, 12892-12895	3.6	11
46	High rate capacity retention of binder-free, tin oxide nanowire arrays using thin titania and alumina coatings. <i>RSC Advances</i> , 2014 , 4, 3312-3317	3.7	11
45	Methanolysis of olive oil for biodiesel synthesis over ZnO nanorods. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2015 , 114, 583-595	1.6	11
44	Structural and Thermoelectric Properties of Black Arsenic Phosphorus. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8543-8551	6.1	11
43	Metal-Micelle Cooperativity: Phosphine Ligand-Free Ultrasmall Palladium(II) Nanoparticles for Oxidative Mizoroki-Heck-type Couplings in Water at Room Temperature. <i>Jacs Au</i> , 2021 , 1, 308-315		11
42	Scalable synthesis and surface stabilization of Li ₂ MnO ₃ NWs as high rate cathode materials for Li-ion batteries. <i>RSC Advances</i> , 2015 , 5, 36906-36912	3.7	10
41	In Situ Transport Measurements and Band Gap Formation of Fluorinated Graphene. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 20150-20155	3.8	10
40	Mesoporous TiO coating on carbon-sulfur cathode for high capacity Li-sulfur battery.. <i>RSC Advances</i> , 2018 , 8, 11622-11632	3.7	10
39	Lack of a threefold rotation axis in FeO and CrO crystals. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2015 , 71, 203-8	1.8	8
38	Gas adsorption and light interaction mechanism in phosphorene-based field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 5949-5958	3.6	8
37	Interface stability of LiCl-rich argyrodite Li ₆ PS ₅ Cl with propylene carbonate boosts high-performance lithium batteries. <i>Electrochimica Acta</i> , 2020 , 363, 137128	6.7	8
36	Shielding Effect of Nanomicelles: Stable and Catalytically Active Oxidizable Pd(0) Nanoparticle Catalyst Compatible for Cross-Couplings of Water-Sensitive Acid Chlorides in Water. <i>Jacs Au</i> , 2021 , 1, 1506-1513		8
35	A rapid and scalable method for making mixed metal oxide alloys for enabling accelerated materials discovery. <i>Journal of Materials Research</i> , 2016 , 31, 1596-1607	2.5	8

34	Plasma catalytic ammonia synthesis on Ni nanoparticles: The size effect. <i>Journal of Catalysis</i> , 2021 , 393, 369-380	7.3	8
33	The Coupled Straintronic-Photothermal Effect. <i>Scientific Reports</i> , 2018 , 8, 64	4.9	7
32	Thermionic emission from phosphorus (P) doped diamond nanocrystals supported by conical carbon nanotubes and ultraviolet photoelectron spectroscopy study of P-doped diamond films. <i>Diamond and Related Materials</i> , 2014 , 50, 66-76	3.5	7
31	Layer-Dependent Hydrazine Adsorption Properties in Few-Layer WS ₂ . <i>Journal of Physical Chemistry C</i> , 2019 ,	3.8	6
30	Highly Active, Selective, and Recyclable Water-Soluble Glutathione-Stabilized Pd and Pd-Alloy Nanoparticle Catalysts in Biphasic Solvent. <i>ChemCatChem</i> , 2020 , 12, 2253-2261	5.2	6
29	Electrooxidation, Size Stability, and Electrocatalytic Activity of 0.9 nm Diameter Gold Nanoclusters Coated with a Weak Stabilizer. <i>ChemElectroChem</i> , 2020 , 7, 800-809	4.3	6
28	Toward high-efficiency dye-sensitized solar cells with a photoanode fabricated via a simple water-based formulation. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 883-891	6.8	5
27	Phase-Transition Interlayer Enables High-Performance Solid-State Sodium Batteries with Sulfide Solid Electrolyte. <i>Advanced Functional Materials</i> , 2021 , 31, 2101636	15.6	5
26	Nanochannels in Photoactive Polymeric Cu(I) Compatible for Efficient Micellar Catalysis: Sustainable Aerobic Oxidations of Alcohols in Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 2854-2860	8.3	5
25	Vacancy Healing as a Desorption Tool: Oxygen Triggered Removal of Stored Ammonia from NiO _{1-x} /MOR Validated by Experiments and Simulations. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8233-8239	6.1	4
24	Cooperative Brønsted-Lewis acid sites created by phosphotungstic acid encapsulated metal-organic frameworks for selective glucose conversion to 5-hydroxymethylfurfural. <i>Fuel</i> , 2021 , 310, 122459	7.1	4
23	Active Targeting Significantly Outperforms Nanoparticle Size in Facilitating Tumor-Specific Uptake in Orthotopic Pancreatic Cancer. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 49614-49630	9.5	4
22	Unique optical properties of Eu doped l-histidine hydrochloride mono hydrate single crystals from low temperature growth technique. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 176, 52-57	4.4	3
21	Nanowire architectures for iodide free dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3543	13	3
20	Iodine activation: a general method for catalytic enhancement of thiolate monolayer-protected metal clusters. <i>Nanoscale</i> , 2020 , 12, 12027-12037	7.7	3
19	Insight the process of hydrazine gas adsorption on layered WS ₂ : a first principle study. <i>Nanotechnology</i> , 2020 , 31, 495703	3.4	3
18	Li interaction-induced phase transition from black to blue phosphorene. <i>Physical Review Materials</i> , 2021 , 5,	3.2	3
17	Graphene-WS ₂ heterostructures by a lithography free method: their electrical properties. <i>Nanotechnology</i> , 2019 , 30, 275704	3.4	2

16	Growth and influence of a porous iron oxide nanolayer on LiMn ₂ O ₄ in an aqueous rechargeable lithium-ion battery. <i>Energy Storage</i> , 2020 , 2, e143	2.8	2
15	ZnO ALD-Coated Microsphere-Based Sensors for Temperature Measurements. <i>Sensors</i> , 2020 , 20,	3.8	2
14	Effect of Metal Nanoparticle Aggregate Structure on the Thermodynamics of Oxidative Dissolution. <i>Langmuir</i> , 2021 , 37, 7320-7327	4	2
13	Chemical Vapor Transport Route toward Black Phosphorus Nanobelts and Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8347-8354	6.4	2
12	Nanowire-Based Materials as Coke-Resistant Catalyst Supports for Dry Methane Reforming. <i>Catalysts</i> , 2021 , 11, 175	4	2
11	Liquid Phase Epitaxy of Gallium Nitride. <i>Crystal Growth and Design</i> , 2019 , 19, 6577-6585	3.5	1
10	3D carbons for energy and environmental technologies 2018 ,		1
9	Near Infrared Tunable Gold Nanoparticles for Low Power Laser Ablation of Esophageal Adenocarcinoma. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1416, 37		1
8	Direct fabrication and characterization of vertically stacked Graphene/h-BN/Graphene tunnel junctions.. <i>Nano Express</i> ,	2	1
7	Towards continuous deoxygenation of acetic acid catalyzed by recyclable mono/bi/trimetallic zeolite catalysts. <i>Journal of Catalysis</i> , 2021 , 401, 137-148	7.3	1
6	Photoluminescence as a probe of phosphorene properties. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	1
5	A scalable approach to topographically mediated antimicrobial surfaces based on diamond.. <i>Journal of Nanobiotechnology</i> , 2021 , 19, 458	9.4	1
4	Direct Fabrication of Vertically Stacked Double Barrier Tunnel Junctions Based on Graphene and h-BN. <i>Electronic Materials Letters</i> ,1	2.9	0
3	Vibrational Properties of Pristine and Lithium-Intercalated Black Phosphorous under High-Pressure. <i>Annalen Der Physik</i> ,2100187	2.6	
2	Morphologic Evaluation of Post-implanted Monofilament Polypropylene Mesh Utilizing a Novel Technique with Scanning Electron Microscopy Quantification. <i>Surgical Technology International</i> , 2015 , 26, 169-73	0.8	
1	Pseudocapacitance of Microporous Carbon/Polyaniline Composites. <i>Surface Engineering and Applied Electrochemistry</i> , 2022 , 58, 87-93	0.8	