

# Joseph P Smith

## List of Publications by Year in descending order

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29  
papers

782  
citations

759233

12  
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501196

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g-index

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docs citations

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times ranked

1544  
citing authors

#	ARTICLE	IF	CITATIONS
1	A High Performance Stretchable Asymmetric Fiber-Shaped Supercapacitor with a Core-Sheath Helical Structure. <i>Advanced Energy Materials</i> , 2017, 7, 1600976.	19.5	242
2	Formation of [Cu <sub>2</sub> O] <sup>2+</sup> and [Cu <sub>2</sub> O] <sup>2+</sup> toward C-H Bond Activation in Cu-SSZ-13 and Cu-SSZ-39. <i>ACS Catalysis</i> , 2017, 7, 4291-4303.	11.2	195
3	A kinase-cGAS cascade to synthesize a therapeutic STING activator. <i>Nature</i> , 2022, 603, 439-444.	27.8	58
4	Spatial strain variation of graphene films for stretchable electrodes. <i>Carbon</i> , 2015, 93, 620-624.	10.3	32
5	A novel multivariate curve resolution-alternating least squares (MCR-ALS) methodology for application in hyperspectral Raman imaging analysis. <i>Analyst, The</i> , 2019, 144, 5425-5438.	3.5	27
6	Spatial and spectral resolution of carbonaceous material from hematite (I±-Fe <sub>2</sub> O <sub>3</sub> ) using multivariate curve resolution-alternating least squares (MCR-ALS) with Raman microspectroscopic mapping: implications for the search for life on Mars. <i>Analyst, The</i> , 2017, 142, 3140-3156.	3.5	20
7	Multivariate Curve Resolution-Alternating Least Squares (MCR-ALS) with Raman Imaging Applied to Lunar Meteorites. <i>Applied Spectroscopy</i> , 2018, 72, 404-419.	2.2	20
8	Raman hyperspectral imaging with multivariate analysis for investigating enzyme immobilization. <i>Analyst, The</i> , 2020, 145, 7571-7581.	3.5	19
9	Shock-metamorphosed rutile grains containing the high-pressure polymorph TiO <sub>2</sub> -II in four Neoproterozoic spherule layers. <i>Geology</i> , 2016, 44, 775-778.	4.4	18
10	Raman Microspectroscopic Mapping with Multivariate Curve Resolution-Alternating Least Squares (MCR-ALS) Applied to the High-Pressure Polymorph of Titanium Dioxide, TiO <sub>2</sub> -II. <i>Applied Spectroscopy</i> , 2017, 71, 1816-1833.	2.2	18
11	<i>in situ</i> analytical characterization and chemical imaging of tablet coatings using laser induced breakdown spectroscopy (LIBS). <i>Analyst, The</i> , 2018, 143, 5000-5007.	3.5	16
12	In situ Raman spectroscopy for real time detection of cysteine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 274, 121068.	3.9	15
13	Machine Learning and Chemical Imaging to Elucidate Enzyme Immobilization for Biocatalysis. <i>Analytical Chemistry</i> , 2021, 93, 11973-11981.	6.5	13
14	Raman microspectroscopic mapping with multivariate curve resolution-alternating least squares (MCR-ALS) of the high-pressure, I±-PbO <sub>2</sub> -structured polymorph of titanium dioxide, TiO <sub>2</sub> -II. <i>Chemical Data Collections</i> , 2017, 9-10, 35-43.	2.3	10
15	Investigation of Lithium Acetyl Phosphate Synthesis Using Process Analytical Technology. <i>Organic Process Research and Development</i> , 2021, 25, 1402-1413.	2.7	10
16	Direct visualization of drug release in injectable implant by laser induced breakdown spectroscopy (LIBS). <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1351-1354.	3.0	9
17	Investigation of minor elemental species within tablets using in situ depth profiling via laser-induced breakdown spectroscopy hyperspectral imaging. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020, 165, 105769.	2.9	9
18	Simultaneous multielement imaging of liver tissue using laser ablation inductively coupled plasma mass spectrometry. <i>Talanta</i> , 2021, 235, 122725.	5.5	8

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19	<i>In situ</i> real time monitoring of emulsification and homogenization processes for vaccine adjuvants. <i>Analyst</i> , 2022, 147, 378-386.	3.5	8
20	Process monitoring of polysaccharide deketalization for vaccine bioconjugation development using in situ analytical methodology. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 209, 114533.	2.8	7
21	Improved Graphene-Oxide-Derived Carbon Sponge for Effective Hydrocarbon Absorption and C-C Coupling Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11793-11800.	6.7	5
22	Quantitation and speciation of residual protein within active pharmaceutical ingredients using image analysis with SDS-PAGE. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 207, 114393.	2.8	5
23	Utilizing in situ spectroscopic tools to monitor ketal deprotection processes. <i>International Journal of Pharmaceutics</i> , 2022, 611, 121324.	5.2	5
24	Multivariate curve resolution for analysis of Raman hyperspectral imaging data sets for enzyme immobilization. <i>Chemical Data Collections</i> , 2022, 38, 100835.	2.3	5
25	Quantitative Perspective on Online Flow Reaction Profiling Using a Miniature Mass Spectrometer. <i>Organic Process Research and Development</i> , 2020, 24, 2611-2618.	2.7	3
26	Holistic Analytical Characterization and Risk Assessment of Residual Host Cell Protein Impurities in an Active Pharmaceutical Ingredient (API) Synthesized by Biocatalysts. <i>Biotechnology and Bioengineering</i> , 2022, , .	3.3	2
27	Raman spectroscopy and multivariate analysis for identification and classification of pharmaceutical pain reliever tablets. <i>Journal of Chemometrics</i> , 2023, 37, .	1.3	2
28	Evaluating Single Layer Graphene Micropatterns Induced by Ti:Sa Laser Irradiation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800334.	1.8	1
29	Adaptive Regression via Subspace Elimination. <i>ACS Symposium Series</i> , 2015, , 241-256.	0.5	0