

# Sina Alavi

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effects of the $\hat{\Gamma}^2$ phase size and shape on the oxidation behavior of NiCoCrAlY coating. Corrosion Science, 2018, 145, 262-270.	6.6	28
2	Conical Torch: The Next-Generation Inductively Coupled Plasma Source for Spectrochemical Analysis. Analytical Chemistry, 2018, 90, 3036-3044.	6.5	13
3	Hot-spot cooling using microliter liquid drops. Applied Thermal Engineering, 2015, 76, 310-323.	6.0	12
4	A Novel ICP Torch with Conical Geometry. Plasma Chemistry and Plasma Processing, 2019, 39, 359-376.	2.4	12
5	Fast and High-Throughput Synthesis of Medium- and High-Entropy Alloys Using Radio Frequency Inductively Coupled Plasma. Advanced Engineering Materials, 2021, 23, 2001116.	3.5	11
6	Time-resolved particle image velocimetry and 3D simulations of single particles in the new conical ICP torch. Journal of Analytical Atomic Spectrometry, 2019, 34, 469-479.	3.0	10
7	Effects of conical nozzle and its geometry on properties of an inductively coupled plasma jet used for optical fabrication. Applied Thermal Engineering, 2018, 128, 785-794.	6.0	8
8	High-Sensitivity and High-Speed Single-Particle Inductively Coupled Plasma Spectrometry with the Conical Torch. Analytical Chemistry, 2020, 92, 11786-11794.	6.5	8
9	Analytical performance of the Conical torch in axially viewed inductively coupled plasma optical emission spectroscopy. Journal of Analytical Atomic Spectrometry, 2019, 34, 2126-2135.	3.0	7
10	Torch Simulator: An analytical model for rapid prediction of inductively coupled plasma parameters. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 180, 106182.	2.9	4
11	Analytical performance of the Conical torch in inductively coupled plasma optical emission spectroscopy operating methanol and 1-propanol solutions. Journal of Analytical Atomic Spectrometry, 2020, 35, 2956-2963.	3.0	4
12	A Novel Radio-Frequency Inductively Coupled Plasma Torch for Material Processing. Plasma Chemistry and Plasma Processing, 2021, 41, 1547.	2.4	2
13	Simulation of Supersonic High-Pressure Gas Atomizer for Metal Powder Production. Journal of Thermal Spray Technology, 2021, 30, 1968-1994.	3.1	2