Steve Kim

List of Publications by Year
in descending order

25 papers	496 citations	759055 12 h-index	752573 20 g-index
25 all docs	25 docs citations	25 times ranked	687 citing authors

#	Article	IF	Citations
1	Achievements and Challenges for Real-Time Sensing of Analytes in Sweat within Wearable Platforms. Accounts of Chemical Research, 2019, 52, 297-306.	7.6	113
2	Stability of peptide (P1 and P2) binding to a graphene sheet via an all-atom to all-residue coarse-grained approach. Soft Matter, 2012, 8, 9101.	1.2	55
3	Advancing Peptide-Based Biorecognition Elements for Biosensors Using *in-Silico* Evolution. ACS Sensors, 2018, 3, 1024-1031.	4.0	50
4	Biomarkers and Detection Platforms for Human Health and Performance Monitoring: A Review. Advanced Science, 2022, 9, e2104426.	5.6	48
5	Biotic–Abiotic Interactions: Factors that Influence Peptide–Graphene Interactions. ACS Applied Materials & Interfaces, 2015, 7, 20447-20453.	4.0	38
6	Photo-thermal oxidation of single layer graphene. RSC Advances, 2016, 6, 42545-42553.	1.7	32
7	Chemically Enhanced Polymer-Coated Carbon Nanotube Electronic Gas Sensor for Isopropyl Alcohol Detection. ACS Omega, 2018, 3, 6230-6236.	1.6	32
8	Impact of Self-Assembled Monolayer Design and Electrochemical Factors on Impedance-Based Biosensing. Sensors, 2020, 20, 2246.	2.1	26
9	Graphene-Based Electrolyte-Gated Field-Effect Transistors for Potentiometrically Sensing Neuropeptide Y in Physiologically Relevant Environments. ACS Applied Nano Materials, 2020, 3, 5088-5097.	2.4	23
10	*In Operando* Observation of Neuropeptide Capture and Release on Graphene Field-Effect Transistor Biosensors with Picomolar Sensitivity. ACS Applied Materials & Interfaces, 2019, 11, 13927-13934.	4.0	22
11	Portable Skin Analyzers with Simultaneous Measurements of Transepidermal Water Loss, Skin Conductance and Skin Hardness. Sensors, 2019, 19, 3857.	2.1	14
12	Oil-Membrane Protection of Electrochemical Sensors for Fouling- and pH-Insensitive Detection of Lipophilic Analytes. ACS Applied Materials & Interfaces, 2021, 13, 53553-53563.	4.0	14
13	Electrochemical biosensor for rapid detection of fungal contamination in fuel systems. Biosensors and Bioelectronics, 2022, 211, 114374.	5.3	6
14	Microfluidic Thermal Flowmeters for Drug Injection Monitoring. Sensors, 2022, 22, 3151.	2.1	5
15	High Throughput Data-Driven Design of Laser-Crystallized 2D MoS_2 Chemical Sensors: A Demonstration for NO_2 Detection. ACS Applied Nano Materials, 2022, 5, 7549-7561.	2.4	5
16	Analysis of pressure-driven membrane preconcentration for point-of-care assays. Biomicrofluidics, 2020, 14, 054101.	1.2	3
17	Selective Electronic NO_2 Sensors Using a Polydimethylsiloxane Filter on WSe_2 Devices. ACS Applied Polymer Materials, 2021, 3, 1285-1292.	2.0	3
18	Influence of the Carbon Nanotube Density on Building Sensitive and Noise-Free Volatile Organic Compound Sensors. , 2021, , .		2

#	Article	IF	Citations
19	Identification of Chiral-Specific Carbon Nanotube Binding Peptides Using a Modified Biopanning Method. Chemosensors, 2021, 9, 245.	1.8	2
20	(Invited)ÂMolecular Sensors for Human Performance Monitoring and Protection. ECS Meeting Abstracts, 2019, MA2019-01, 1370-1370.	0.0	1
21	Fully printed and flexible multi-material electrochemical aptasensor platform enabled by selective graphene biofunctionalization. Engineering Research Express, 2022, 4, 015037.	0.8	1
22	A Dual Approach of an Oilâ€"Membrane Composite and Boron-Doped Diamond Electrode to Mitigate Biofluid Interferences. Sensors, 2021, 21, 8063.	2.1	1
23	Bioinspired/Chemically Enhanced Biosensor for Detection of Gaseous Isopropyl Alcohol. , 2019, , .		0
24	Air2Liquid Method for Selective, Sensitive Detection of Gas-Phase Organophosphates. ACS Sensors, 2020, 5, 13-18.	4.0	0
25	Opportunities and limitations of membrane-based preconcentration for rapid and continuous diagnostic applications. Sensors & Diagnostics, 2022, 1, 222-234.	1.9	0