

Aaron P Esser-Kahn

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7790322/publications.pdf>

Version: 2024-02-01

71
papers

3,373
citations

236925

25
h-index

144013

57
g-index

80
all docs

80
docs citations

80
times ranked

4715
citing authors

#	ARTICLE	IF	CITATIONS
1	Triggered Release from Polymer Capsules. <i>Macromolecules</i> , 2011, 44, 5539-5553.	4.8	534
2	In vivo characterization of the physicochemical properties of polymer-linked TLR agonists that enhance vaccine immunogenicity. <i>Nature Biotechnology</i> , 2015, 33, 1201-1210.	17.5	362
3	N-Terminal Protein Modification through a Biomimetic Transamination Reaction. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5307-5311.	13.8	335
4	Three-Dimensional Microvascular Fiber-Reinforced Composites. <i>Advanced Materials</i> , 2011, 23, 3654-3658.	21.0	203
5	Programmable Microcapsules from Self-Immolative Polymers. <i>Journal of the American Chemical Society</i> , 2010, 132, 10266-10268.	13.7	192
6	Metallothionein-Cross-Linked Hydrogels for the Selective Removal of Heavy Metals from Water. <i>Journal of the American Chemical Society</i> , 2008, 130, 15820-15822.	13.7	92
7	Incorporation of Antifreeze Proteins into Polymer Coatings Using Site-Selective Bioconjugation. <i>Journal of the American Chemical Society</i> , 2010, 132, 13264-13269.	13.7	89
8	Applications of Immunomodulatory Immune Synergies to Adjuvant Discovery and Vaccine Development. <i>Trends in Biotechnology</i> , 2019, 37, 373-388.	9.3	88
9	Modification of Aniline Containing Proteins Using an Oxidative Coupling Strategy. <i>Journal of the American Chemical Society</i> , 2006, 128, 15558-15559.	13.7	73
10	Bio-inspired mechanically adaptive materials through vibration-induced crosslinking. <i>Nature Materials</i> , 2021, 20, 869-874.	27.5	73
11	Protein-Cross-Linked Polymeric Materials through Site-Selective Bioconjugation. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3751-3754.	13.8	72
12	Identification of Highly Reactive Sequences For PLP-Mediated Bioconjugation Using a Combinatorial Peptide Library. <i>Journal of the American Chemical Society</i> , 2010, 132, 16812-16817.	13.7	68
13	Toll-like Receptor Agonist Conjugation: A Chemical Perspective. <i>Bioconjugate Chemistry</i> , 2018, 29, 587-603.	3.6	67
14	Chemical Treatment of Poly(lactic acid) Fibers to Enhance the Rate of Thermal Depolymerization. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 503-509.	8.0	55
15	Modulation of Innate Immune Responses <i>via</i> Covalently Linked TLR Agonists. <i>ACS Central Science</i> , 2015, 1, 439-448.	11.3	55
16	Ultrasound Promoted Step-Growth Polymerization and Polymer Crosslinking Via Copper Catalyzed Azide-Alkyne "Click" Reaction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11208-11212.	13.8	54
17	Directing the Immune System with Chemical Compounds. <i>ACS Chemical Biology</i> , 2014, 9, 1075-1085.	3.4	48
18	Stimulation of Innate Immune Cells by Light-Activated TLR7/8 Agonists. <i>Journal of the American Chemical Society</i> , 2014, 136, 10823-10825.	13.7	44

#	ARTICLE	IF	CITATIONS
19	Mechanically Initiated Bulkâ€Scale Freeâ€Radical Polymerization. Angewandte Chemie - International Edition, 2019, 58, 12023-12026.	13.8	44
20	Immunomodulation of the NLRP3 Inflammasome through Structure-Based Activator Design and Functional Regulation via Lysosomal Rupture. ACS Central Science, 2018, 4, 982-995.	11.3	42
21	Linked Toll-Like Receptor Triagonists Stimulate Distinct, Combination-Dependent Innate Immune Responses. ACS Central Science, 2019, 5, 1137-1145.	11.3	37
22	Cancer Cell Lysate Entrapment in CaCO ₃ Engineered with Polymeric TLR-Agonists: Immune-Modulating Microparticles in View of Personalized Antitumor Vaccination. Chemistry of Materials, 2017, 29, 4209-4217.	6.7	30
23	Increased vaccine tolerability and protection via NF- κ B modulation. Science Advances, 2020, 6, .	10.3	29
24	Covalently Coupled Immunostimulant Heterodimers. Angewandte Chemie - International Edition, 2014, 53, 189-192.	13.8	28
25	Photothermal release of CO ₂ from capture solutions using nanoparticles. Energy and Environmental Science, 2014, 7, 2603-2607.	30.8	26
26	Surface modification of carbon black nanoparticles enhances photothermal separation and release of CO ₂ . Carbon, 2016, 105, 126-135.	10.3	26
27	<i>In Vitro</i> and <i>In Vivo</i> Analyses of the Effects of Source, Length, and Charge on the Cytotoxicity and Immunocompatibility of Cellulose Nanocrystals. ACS Biomaterials Science and Engineering, 2021, 7, 1450-1461.	5.2	26
28	100th Anniversary of Macromolecular Science Viewpoint: Piezoelectrically Mediated Mechanochemical Reactions for Adaptive Materials. ACS Macro Letters, 2020, 9, 1237-1248.	4.8	25
29	Tuning Subunit Vaccines with Novel TLR Triagonist Adjuvants to Generate Protective Immune Responses against <i>Coxiella burnetii</i> . Journal of Immunology, 2020, 204, 611-621.	0.8	24
30	Controlling the Origins of Inflammation with a Photoactive Lipopeptide Immunopotentiator. Angewandte Chemie - International Edition, 2015, 54, 5962-5965.	13.8	23
31	Determination of Factors Influencing the Wet Etching of Polydimethylsiloxane Using Tetra ϵ n ϵ butylammonium Fluoride. Macromolecular Chemistry and Physics, 2016, 217, 284-291.	2.2	23
32	Surface Coating of Nanoparticles Reduces Background Inflammatory Activity while Increasing Particle Uptake and Delivery. ACS Biomaterials Science and Engineering, 2017, 3, 206-213.	5.2	21
33	Transiently Thermoresponsive Acetal Polymers for Safe and Effective Administration of Amphotericin B as a Vaccine Adjuvant. Bioconjugate Chemistry, 2018, 29, 748-760.	3.6	20
34	Mitigation of Hydrophobicity-Induced Immunotoxicity by Sugar Poly(orthoesters). Journal of the American Chemical Society, 2019, 141, 4510-4514.	13.7	20
35	Light Guided In-vivo Activation of Innate Immune Cells with Photocaged TLR 2/6 Agonist. Scientific Reports, 2017, 7, 8074.	3.3	19
36	Subunit Vaccines Using TLR Triagonist Combination Adjuvants Provide Protection Against <i>Coxiella burnetii</i> While Minimizing Reactogenic Responses. Frontiers in Immunology, 2021, 12, 653092.	4.8	19

#	ARTICLE	IF	CITATIONS
37	Covalent modification of cell surfaces with TLR agonists improves & directs immune stimulation. Chemical Communications, 2013, 49, 9618.	4.1	18
38	Mechanically Initiated Bulk&Scale Free&Radical Polymerization. Angewandte Chemie, 2019, 131, 12151-12154.	2.0	18
39	Mechanically Promoted Synthesis of Polymer Organogels via Disulfide Bond Cross-Linking. ACS Macro Letters, 2021, 10, 799-804.	4.8	18
40	Photothermal Nanoparticle Initiation Enables Radical Polymerization and Yields Unique, Uniform Microfibers with Broad Spectrum Light. ACS Applied Materials & Interfaces, 2017, 9, 39034-39039.	8.0	17
41	Solvent Effects on the Photothermal Regeneration of CO ₂ in Monoethanolamine Nanofluids. ACS Applied Materials & Interfaces, 2015, 7, 25851-25856.	8.0	16
42	Immune Response Modulation of Conjugated Agonists with Changing Linker Length. ACS Chemical Biology, 2016, 11, 3347-3352.	3.4	16
43	Small Molecule NF- κ B Inhibitors as Immune Potentiators for Enhancement of Vaccine Adjuvants. Frontiers in Immunology, 2020, 11, 511513.	4.8	14
44	A Microvascular System for Chemical Reactions Using Surface Waste Heat. Angewandte Chemie - International Edition, 2013, 52, 13731-13734.	13.8	13
45	Controllable Frontal Polymerization and Spontaneous Patterning Enabled by Phase&Changing Particles. Small, 2021, 17, e2102217.	10.0	13
46	The Effect of Membrane Thickness on a Microvascular Gas Exchange Unit. Advanced Functional Materials, 2013, 23, 100-106.	14.9	12
47	A Light&Controlled TLR4 Agonist and Selectable Activation of Cell Subpopulations. ChemBioChem, 2015, 16, 1744-1748.	2.6	12
48	Pathogen-like Nanoassemblies of Covalently Linked TLR Agonists Enhance CD8 and NK Cell-Mediated Antitumor Immunity. ACS Central Science, 2020, 6, 2071-2078.	11.3	12
49	A Photoactivatable Innate Immune Receptor for Optogenetic Inflammation. ACS Chemical Biology, 2017, 12, 347-350.	3.4	11
50	Cooperative CO ₂ Absorption Isotherms from a Bifunctional Guanidine and Bifunctional Alcohol. ACS Central Science, 2017, 3, 1271-1275.	11.3	11
51	Ultrasound Promoted Step&Growth Polymerization and Polymer Crosslinking Via Copper Catalyzed Azide&Alkyne &Click&Reaction. Angewandte Chemie, 2018, 130, 11378-11382.	2.0	11
52	Manipulating Frontal Polymerization and Instabilities with Phase-Changing Microparticles. Journal of Physical Chemistry B, 2021, 125, 7537-7545.	2.6	11
53	Magnitude and breadth of antibody cross-reactivity induced by recombinant influenza hemagglutinin trimer vaccine is enhanced by combination adjuvants. Scientific Reports, 2022, 12, .	3.3	11
54	Bio-Inspired Morphogenesis Using Microvascular Networks and Reaction&Diffusion. Chemistry of Materials, 2015, 27, 4871-4876.	6.7	7

#	ARTICLE	IF	CITATIONS
55	Photon upconversion for the enhancement of microfluidic photochemical synthesis. RSC Advances, 2019, 9, 26172-26175.	3.6	7
56	Bio-inspired counter-current multiplier for enrichment of solutes. Nature Communications, 2018, 9, 736.	12.8	6
57	Robust tolerogenic dendritic cells via push/pull pairing of toll-like-receptor agonists and immunomodulators reduces EAE. Biomaterials, 2022, 286, 121571.	11.4	6
58	Process of Making Three-dimensional Microstructures using Vaporization of a Sacrificial Component. Journal of Visualized Experiments, 2013, , e50459.	0.3	5
59	From Glucose to Polymers: A Continuous Chemoenzymatic Process. Angewandte Chemie - International Edition, 2020, 59, 18943-18947.	13.8	5
60	Determining Whether Agonist Density or Agonist Number Is More Important for Immune Activation via Micoparticle Based Assay. Frontiers in Immunology, 2020, 11, 642.	4.8	5
61	Receptorâ€“Ligand Kinetics Influence the Mechanism of Action of Covalently Linked TLR Ligands. ACS Chemical Biology, 2021, 16, 380-388.	3.4	5
62	Bio-inspired microvascular exchangers employing circular packing â€“ synthetic rete mirabile. Materials Horizons, 2014, 1, 602-607.	12.2	3
63	Structural Remodeling of Polymeric Material via Diffusion Controlled Polymerization and Chain Scission. Chemistry of Materials, 2018, 30, 8126-8133.	6.7	3
64	Demonstration of the photothermal catalysis of the Sabatier reaction using nickel nanoparticles and solar spectrum light. RSC Advances, 2021, 11, 8394-8397.	3.6	3
65	A synthetic pathogen mimetic molecule induces a highly amplified synergistic immune response<i>via</i> activation of multiple signaling pathways. Chemical Science, 2021, 12, 6646-6651.	7.4	3
66	Site-specific antigen-adjuvant conjugation using cell-free protein synthesis enhances antigen presentation and CD8+ T-cell response. Scientific Reports, 2021, 11, 6267.	3.3	3
67	Heat Shock Protein 90â€™s Mechanistic Role in Contact Hypersensitivity. Journal of Immunology, 2022, 208, 2622-2631.	0.8	3
68	From Glucose to Polymers: A Continuous Chemoenzymatic Process. Angewandte Chemie, 2020, 132, 19105-19109.	2.0	2
69	Hybrid Materials: Three-Dimensional Microvascular Fiber-Reinforced Composites (Adv. Mater. 32/2011). Advanced Materials, 2011, 23, 3653-3653.	21.0	1
70	Correlating the structure and reactivity of a contact allergen, DNCB, and its analogs to sensitization potential. Bioorganic and Medicinal Chemistry, 2019, 27, 2985-2990.	3.0	1
71	Improving the Adjuvanticity of Small Molecule Immune Potentiators Using Covalently Linked NF-Î’B Modulators. ACS Medicinal Chemistry Letters, 2021, 12, 1441-1448.	2.8	0