

Caroline E Knapp

List of Publications by Year in descending order

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45
papers

996
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471509

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46
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times ranked

1468
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution based CVD of main group materials. <i>Chemical Society Reviews</i> , 2016, 45, 1036-1064.	38.1	141
2	Comparison of macrocyclic and acyclic chelators for gallium-68 radiolabelling. <i>RSC Advances</i> , 2017, 7, 49586-49599.	3.6	120
3	Origin of High Mobility in Molybdenum-Doped Indium Oxide. <i>Chemistry of Materials</i> , 2015, 27, 2788-2796.	6.7	71
4	Aerosol-Assisted Chemical Vapor Deposition of Transparent Conductive Gallium-Indium-Oxide Films. <i>Chemistry of Materials</i> , 2011, 23, 1719-1726.	6.7	59
5	The Role of Group 14 Element Hydrides in the Activation of C-H Bonds in Cyclic Olefins. <i>Journal of the American Chemical Society</i> , 2012, 134, 14595-14603.	13.7	50
6	The Crystalline Sponge Method: A Systematic Study of the Reproducibility of Simple Aromatic Molecule Encapsulation and Guest-Host Interactions. <i>Crystal Growth and Design</i> , 2016, 16, 3465-3472.	3.0	43
7	Room-Temperature Plasma-Assisted Inkjet Printing of Highly Conductive Silver on Paper. <i>Advanced Materials Technologies</i> , 2018, 3, 1700326.	5.8	35
8	Robust electrografted interfaces on metal oxides for electrocatalysis – an <i>in situ</i> spectroelectrochemical study. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15200-15212.	10.3	33
9	Hybrid Organic-Inorganic Coordination Complexes as Tunable Optical Response Materials. <i>Inorganic Chemistry</i> , 2016, 55, 3393-3400.	4.0	31
10	Molecular Complexes Featuring Unsupported Dispersion-Enhanced Aluminum-Copper and Gallium-Copper Bonds. <i>Journal of the American Chemical Society</i> , 2020, 142, 19874-19878.	13.7	28
11	MODs vs. NPs: Vying for the Future of Printed Electronics. <i>Chemistry - A European Journal</i> , 2021, 27, 8062-8081.	3.3	27
12	Synthesis and structures of gallium alkoxides. <i>New Journal of Chemistry</i> , 2008, 32, 1513.	2.8	22
13	The use of combinatorial aerosol-assisted chemical vapour deposition for the formation of gallium-indium-oxide thin films. <i>Journal of Materials Chemistry</i> , 2011, 21, 12644.	6.7	22
14	Synthesis and characterisation of novel aluminium and gallium precursors for chemical vapour deposition. <i>New Journal of Chemistry</i> , 2015, 39, 6585-6592.	2.8	22
15	Aerosol-Assisted Chemical Vapour Deposition of a Copper Gallium Oxide Spinel. <i>ChemPlusChem</i> , 2014, 79, 122-127.	2.8	21
16	Synthetic and Structural Studies of Donor-Functionalized Alkoxy Derivatives of Gallium. <i>Inorganic Chemistry</i> , 2011, 50, 9491-9498.	4.0	20
17	Synthesis, AACVD and X-ray crystallographic structures of group 13 monoalkoxometallanes. <i>Main Group Chemistry</i> , 2010, 9, 31-40.	0.8	18
18	Dimethylalkoxygallanes: Monomeric versus Dimeric Gas-Phase Structures. <i>Inorganic Chemistry</i> , 2012, 51, 3324-3331.	4.0	18

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19	Aerosol-Assisted Chemical Vapour Deposition of Zinc Oxide from Single-Source β -ketoesterate Precursors. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3658-3665.	2.0	17
20	Precursors for Atmospheric Plasma-Enhanced Sintering: Low-Temperature Inkjet Printing of Conductive Copper. <i>ChemistryOpen</i> , 2018, 7, 850-857.	1.9	17
21	Low-Temperature Deposition of Highly Conductive Aluminum Metal Films on Flexible Substrates Using Liquid Alane MOD Precursors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26193-26199.	8.0	16
22	Reactivity of vanadium oxytrichloride with β -diketones and diesters as precursors for vanadium nitride and carbide. <i>Materials and Design</i> , 2016, 108, 780-790.	7.0	15
23	A rugged, self-sterilizing antimicrobial copper coating on ultra-high molecular weight polyethylene: a preliminary study on the feasibility of an antimicrobial prosthetic joint material. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3310-3318.	5.8	14
24	Aerosol-assisted route to low-E transparent conductive gallium-doped zinc oxide coatings from pre-organized and halogen-free precursor. <i>Chemical Science</i> , 2020, 11, 4980-4990.	7.4	12
25	Aerosol-Assisted Chemical Vapour Deposition of Transparent Zinc Gallate Films. <i>ChemPlusChem</i> , 2014, 79, 1024-1029.	2.8	11
26	Metal β -diketoiminate precursor use in aerosol assisted chemical vapour deposition of gallium- and aluminium-doped zinc oxide. <i>Polyhedron</i> , 2018, 140, 35-41.	2.2	11
27	Dimethylalkoxygallane incorporating a donor-functionalised alkoxide: the monomeric gas-phase structure. <i>Dalton Transactions</i> , 2008, , 6880.	3.3	10
28	Synthesis of Trimeric Organozinc Compounds and their Subsequent Reaction with Oxygen. <i>ChemistryOpen</i> , 2016, 5, 301-305.	1.9	10
29	Aerosol assisted chemical vapour deposition of transparent conductive aluminum-doped zinc oxide thin films from a zinc triflate precursor. <i>Thin Solid Films</i> , 2016, 616, 477-481.	1.8	9
30	Accessing new 2D semiconductors with optical band gap: synthesis of iron-intercalated titanium diselenide thin films via LPCVD. <i>RSC Advances</i> , 2018, 8, 22552-22558.	3.6	8
31	Structural and Dynamic Properties of Gallium Alkoxides. <i>Inorganic Chemistry</i> , 2019, 58, 10346-10356.	4.0	8
32	A novel precursor towards buffer layer materials: the first solution based CVD of zinc oxysulfide. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5501-5508.	5.5	8
33	Synthesis, solution dynamics and chemical vapour deposition of heteroleptic zinc complexes via ethyl and amide zinc thioureides. <i>Chemical Science</i> , 2021, 12, 8822-8831.	7.4	8
34	Macrocycles containing 1,1'-ferrocenyldiselenolato ligands on group 4 metallocenes. <i>Dalton Transactions</i> , 2018, 47, 5415-5421.	3.3	7
35	Iron-Intercalated Zirconium Diselenide Thin Films from the Low-Pressure Chemical Vapor Deposition of $[\text{Fe}(\text{C}_5\text{H}_4\text{Se})_2\text{Zr}(\text{C}_5\text{H}_5)_2]$. <i>ACS Omega</i> , 2020, 5, 15799-15804.	3.5	7
36	$[\{\text{VOCl}_2(\text{CH}_2(\text{COOEt})_2)\}_4]$ as a molecular precursor for thermochromic monoclinic VO_2 thin films and nanoparticles. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10453-10463.	5.5	6

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37	Synthetic and Structural Studies of Ethyl Zinc \hat{I}^2 -Amidoenoates and \hat{I}^2 -Ketoiminates. <i>Molecules</i> , 2021, 26, 3165.	3.8	6
38	Chemical vapour deposition (CVD) of nickel oxide using the novel nickel dialkylaminoalkoxide precursor $[Ni(dmamp\hat{e}^2)_{2}]$ ($dmamp\hat{e}^2 = 2$ -dimethylamino-2-methyl-1-propanolate). <i>RSC Advances</i> , 2021, 11, 22199-22205.	3.6	5
39	Synthetic tethered silver nanoparticles on reduced graphene oxide for alkaline oxygen reduction catalysis. <i>Journal of Materials Science</i> , 2021, 56, 6966-6976.	3.7	4
40	Synthesis and Characterisation of Various Diester and Triester Adducts of $TiCl_4$. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 3666-3673.	2.0	2
41	Investigations into the structure, reactivity, and AACVD of aluminium and gallium amidoenoate complexes. <i>Dalton Transactions</i> , 2021, 51, 156-167.	3.3	2
42	Precursor design and impact of structure on the fabrication of materials. , 2022, , 3-53.		1
43	Ethyl Zinc \hat{I}^2 -Ketoiminates and \hat{I}^2 -Amidoenoates: Influence of Precursor Design on the Properties of Highly Conductive Zinc Oxide Thin Films from Aerosol-Assisted Chemical Vapour Deposition.. <i>ChemPlusChem</i> , 2022, 87, e202100537.	2.8	1
44	Frontispiece: MODs vs. NPs: Vying for the Future of Printed Electronics. <i>Chemistry - A European Journal</i> , 2021, 27, .	3.3	0
45	Deposition of metallic silver from versatile amidinate precursors for use in functional materials. <i>Journal of Chemical Research</i> , 2022, 46, 174751982210753.	1.3	0