

Annexure-I
Curriculum Vitae PI

Dr. Humaira Masood Siddiqi

Professor
Department of Chemistry
Quaid-I-Azam University
Islamabad Pakistan

Field of Specialization Polymers

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Research /Teaching Experience:

24 years teaching Research Department of Chemistry QAU

Educational Qualifications

Ph.D, June 1997, Grade Highly appreciable, Institut National des Sciences Appliquees de Lyon
France

M.Phil, June 1993, GPA 4.1 1st Div., Quaid-I-Azam University Islamabad Pakistan

M.Sc. , Dec. 1990, GPA 3.8, 1st Div., Quaid-I-Azam University Islamabad Pakistan

B.Sc. ,1988, Grade B, 1st Div., Govt. College for Women 6th Road RP. Pakistan

F.Sc., 1986, Grade B, 1st Div., Govt. College for Women 6th Road RP. Pakistan

Matric, 1984, Grade A 1st Div., F.G Girls High School Misrial Road RP. Pakistan

Languages

Urdu,

English

French: 4 Months certificate course from N.I.M.L H-9 Islamabad

3 Months course from C.E.U.F Greonble France

Diploma in DELF 1st degree from Academie de Lyon France

Diploma in DELF 2nd degree from Academie de Lyon France

Computer Knowledge

Working knowledge of different softwares in Window environment.(MS Word, Excel, Chemwin,
Visio, Power Point).

Distinctions & Scholarships

- 2nd position in school in Matric Board Exams 1984.

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- 1st position in Physics in college during F.Sc 1984-86.
- 1st position in Islamic studies during B.Sc. 1986-88
- 3rd position in Aggregate in B.Sc 1986-88.
- 1st position in College in B.Sc. University Exams 1988.
- President's Talent forming scheme scholarship UGC in M.Sc for 2 years.
- University merit scholarship in M.Phil for 2years.
- Science and technology Scholarship from Ministry of Science and Technology Pakistan (1993-97) for Ph.D. for 4 years.
- Research Productivity Awards From Pakistan Council of Science and Technology
- Travel grants to attend international conferences 2017 France, 2018 Vienna

Courses taught

1. Biochemistry
2. Reaction Mechanism I
3. Organic synthesis
4. Natural products
5. Special topics in Organic chemistry
6. Modern trends in organic synthesis
7. Special organic reactions
8. Name reaction
9. Chemistry of Heterocycles
10. Organic polymer Chemistry
11. Organic Chemistry Laboratory I
12. Organic Chemistry Laboratory II
13. Organic chemistry practicals 3rd sem M.Sc.
14. Advanced Organic Chemistry Practicals

Supervision

M. Phil: 59, five in progress

Ph.D.: 14 completed, 5 in progress

Research Projects of interest

1. Synthesis and characterization of liquid crystal molecules.
2. Synthesis and characterization of polymers and their Composite materials (epoxy amine based organic/inorganic hybrid Nanocomposites, biodegradable composites, and Polymer dispersed liquid crystals). Polymer composites for remediation of toxic metals from water. Materials for Sensing of toxic metals, Polymers for optoelectronic applications, Polymer electrolyte membranes etc

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Funded Research Projects

No.	Title	Donor Agency	Amount (Rs./)	From	To	Role as
1.	Synthesis and Characterization some liquid crystalline molecules	URF Project for the Department of Chemistry	110,000/	1999	2000	PI
2.	Synthesis and characterization of some modified epoxy oligomers	URF Project for the Department of Chemistry	75,000/	2000	2001	PI
3.	Synthesis and characterization of some liquid crystalline molecules	PSF	6,16,945	2001	2003	Co-PI
4.	Synthesis and Characterisation of some epoxy based interpenetrating (O-I) hybrid polymer materials	URF project for the Department of Chemistry	24,000/	2003	2004	PI
5.	Synthesis of some novel ferrocene based mono and difunctional amines and their reaction with epoxy resin	URF Project for the Department of Chemistry	40,000/	2004	2005	PI
6.	Synthesis and Characterisation of some novel ferrocne containing materials	HEC	Rs.1587,000/	2003	2006	Co-PI
7.	Synthesis and charcterization of some ferrocenylamines, their benzene analogues and their reaction with commercial epoxy resins.	URF Project for the Department of Chemistry	Rs.75,000/	2005	2006	PI
8.	Synthesis and characterization of novel high temperature resistant materials	HEC	3,733,000	2007	2010	Co-PI
9	Synthesis and characterization of novel epoxy amine polymers	HEC	Rs.6,525,960	2007	2010	PI
10	Synthesis and characterization of some p-	URF	67900/	2010-	2011	PI

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	alkoxy substituted diester derivatives of dihydroxyazoxybenzene					
11	Super-Toughened elastomeric coatings: Role of metal oxide nanoparticles in property enhancement	HEC	3723247/-	2010	2012	PI
12	Synthesis and characterization of p-Allyloxy substituted bis-benzamides by using different commercial and synthesized diamines as potential monomers for polymerization reactions		47538/	2011	2012	PI
13	Synthesis and physicochemical studies of some ferrocene based conducting materials and their organic analogues (20-2154/NRPU/R&D/HEC/12-3698	HEC	15,266,480	2012	2015	Co-PI
14	Synthesis and caharcterization of sulfone containing diamines and their polymers	URF deptt of chemistry	44882/	2012	2013	PI
15	Design and synthesis of benzamide containing diamines , polymers and their graphene based poymer composites	URF deptt of chemistry	25088	2013	2014	
16	Design and synthesis of long alkyl chain based organometal p-erovskites and their photocatalytic activity	URF deptt of chemistry	60000/-	2014-	2015	PI
17	Liquid crystals and TiO2 nanomaterials based nanosensors	URF deptt of chemistry	80000/-			
18	Synthesis of heterocyclic benzamides with flexible chains as surfactant and lyotropic mesogens	URF deptt of chemistry	100000/-	2016	2017	PI
19	Design, synthesis and characterization of novel thiophene based-regioregular polymers and evaluation of	URF deptt of chemistry	70000/-	2017	2018	PI

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	their opto-electronic properties					
20	Computer guided design and synthesis of IL-2 inhibitors as immunomodulating agents (Granted to originally to Prof.Dr.Farzana Latif Ansari but transferred to me for the last year only due to the retirement of PI	HEC	3585295/-	2010	2014	PI for the last year only due to retirement of previous PI
21	Synthesis, characterization and application of organic photonic and electrochromic materials	HEC	1129973/-	2016	2019	PI
22	Development of novel electrode and electrolyte material for fuel cell applications	HEC	320000/-	2017	2019	PI

M.phil thesis Supervision

S.No	Student's Name	Thesis title	Year
1	Tanzeela Nazir	Synthesis and characterization of some epoxy based interpenetrating organic-inorganic hybrid materials	2001
2	Malik Mohammed Qasim	Synthesis and characterization of some liquid crystalline molecules	2002
3	Adeel Afzal	Synthesis and characterization of some epoxy based interpenetrating O-I hybrid materials using "GPTMS" as the coupling agent	2004
4	Naila Khalid	Synthesis and characterization of ferrocene based amines organic diamines and their curing behaviour with epoxy resin	2005
5	Samia Sajid	Synthesis and characterization of some aromatic amines and their reaction with the commercial epoxy resins	2006
6	Tabinda Fatima	Synthesis and characterization of some liquid crystalline Schiff base derivatives	2007
7	Toheed akhtar Shahbaz	Synthesis and characterization of some epoxy-polyimide composites	2007
8	Saqiba Sherazi	Synthesis and characterization of some epoxy based composites	2007
9	Inshad Khan	Synthesis and characterization of some new epoxy-polyimide composites	2007
10	Gulnaz bibi	Synthesis and characterization of some new oligomers and polymers of epoxy	2008
11	Sumaira Shahzadi	Synthesis and characterization of some mesogenic azoxybenzene derivatives	2009
12	Amna Siraj	Synthesis and characterization of some new tetraglycidyl amines and their polymers	2009

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13	Uzma Bibi	Synthesis and characterization of some aromatic derivatives of 4,4'-Dihydroxyazoxybenzene as potential mesomorphic &/or biologically active molecules.	2009
14	Zakya Rubab	Synthesis and characterization of epoxyamine-titania composites	2010
15	Maria Shakeel	Synthesis and characterization of some diamines and their applications to epoxy resins	2011
16	Neelum Hafiz	Synthesis and characterization of new polyesters containing azomethine groups	2011
17	Asma Iqbal	Synthesis and characterization of some rigid rod like molecules as potential liquid crystals	2011
18	Mahwash Atta	Synthesis and characterization of epoxy-amine –titania composites using glycidoxypropyltrimethoxy silane as a coupling agent	2011
19	Aneela Tabassum	Synthesis and characterization of some multifunctional molecules	2012
20	Tehmina Naz	Synthesis and characterization of epoxy-ZnO nanocomposites	2012
21.	Qaiser Mahmood	Synthesis and characterization of metal oxide nanoparticles and their nanocomposites	
22.	Muhammed Muhammed Faheem	Synthesis and Characterization of ZnO nanoparticles and epoxy based nanocomposites derived thereof	2012
23	Faiza Rehman	Synthesis and characterization of derivatives of p-Nitrophenol	2013
24	Madiha Tariq	Synthesis and characterization of some allylic monomers for free radical polymerization	2013
25	Shaista Shamim	Synthesis and characterization of some hyper branched polymers	2014
26	Zil e Huma	Synthesis and characterization of some new diamine and their polyimides with improved thermal properties	2014
27	Ayesha Siddiqua	Synthesis and characterization of ether based multifunctional amines as precursors for hyperbranched polymers	2015
28	Hina Abbas	Synthesis and characterization of some new polyimides having amide pendant groups	2015
29	Aaliya Manzoor	Synthesis and characterization of tribenzamides having symmetrical flexible and/or rigid moieties	2015
30	Iqra Gilani	Synthesis and characterization and curing study of some aromatic diamines with epoxy oligomers	2015
31	Shazma Habib	Synthesis and characterization of some polyimides from melanine derivatives for special applications	2016
32	Syeda Sadaf Kiran	Synthesis and characterization of some new polymer blends as potential proton conducting materials	2016
33.	Nasir Majid	Functionalization of titania nanoparticles in liquid crystal based sensing platform	2016
34	Zahid Ullah	Synthesis and characterization of some new sulfonated polyimides	2016
35	Sahar Shumail	Synthesis and characterization of triphenylamine based polyimides	2017
36	Shafaq Waqar	Synthesis and characterization of biopolymer coated silica and titania nanoparticles for drug delivery application	2017
37	Faria Anwar	Synthesis and characterization of some triphenylamine based polyimides containing heterocyclic pendant groups	2017
38	Maria Zubair	Synthesis characterization and effects of addition of titania nanoparticles on properties of epoxyamine matrix	2017

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39	Tayyaba Habib	Synthesis and characterization of some new co-polyimides and their nanocomposites	2017
40	Salma Hamdani	Synthesis and characterization of ancillary ligands for their use in heteroleptic ruthenium (II) dyes	2018
41	Kiran Shehzadi	Synthesis and characterization of polyimide derived from naphthyloxy aryl and quinolinoxy aryl amines	2018
42	Sadia Khawarr	Synthesis and characterization of some polyazo methane (s)	2018
43	Makhmoor Jahan Iqbal	Synthesis and Characterization of new sulfonated Poly(ether imide) copolymers with controlled degree of sulfonation	2019
44	Sobia Noreen	Synthesis and Characterization of Some Organic Ligands for Detection of Heavy Metals in Water Using Liquid Crystal Based Sensor	2019
45	Maryam Afzal	Synthesis and characterization of some thiophene based organic molecules as precursors for polymer sythesis	2020
46	Hina Daud	Synthesis and Characterization of some fluorinated)poly(amide-imide)s and their co-polymers	2019
47	Tahira Kanwal	Synthesis and characterization of co-continuous Polyimide/graphene modified polyimide hybrids	2020
49	Sidrah Zafar	Synthesis and characterization of some new benzimidazole based based ruthenium (II)dyes	2020
50	Samona Shafiq	Synthesis and charcterization of some high performance poly- and co-polyimides	2021
51	Tooba Shaukat	Synthesis and characterization of poly- and co-polyimdes based on sulfonated stilbeneand poly(ether amine)	2021
52	Saima Khan	Development of Palladium Catalyzed Thiophene-2-carboxamide based Polymerization	2021
53	Maria Arshad	Synthesis and Characterization of Some High-Performance Graphene and Boron-Nitride Based Polyimide Composites	2021
54	Sana Fatima	Synthesis and Characterization of Some Multifunctional Molecules for Designing Hyperbranched Molecular	2022
55	Fahad Yasin	Synthesis of Jeffamine and thiourea based polyimides as potential energy harnessing materials	2022
56	Hamayoun Asim	Synthesis and characterization of 4,4'-biphenyl based diamnie its polyimides and co-polyimides	2022
57	Ambreen Alam	Synthesis and characterization of some azomethine ethers having long chain alkxoy groups	2022
58	Iqra Bibi	Synthesis and characterization of poly- and co-polyimdes based on sulfonated stilbeneand poly(ether amine)	2022
59	Warda Bibi	Synthesis and Characterization of Some Poly(ether imide)s,	2023

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		poly(ether amide imide)s and their composites with Titania nanoparticles	
60	Javeria Qurban	Synthesis and Characterization of Small Conjugated Molecules having Potential Optoelectronic Properties	2022
61	Faiqa Sabih	Synthesis and characterization of Some bis-azomethines and polyazomethines derived from an aromatic diamine having pendant aza-cyclic ring	2023
62	Syeda Iqra Kazmi	Synthesis And Characterization of Triphenylamine based Linear Polymers with Alkoxy Pendant Group	2023
63	Rushba Saman	Synthesis and characterization of some polymers using benzimidazole containing diamines	2023
64	Zartasha Nadeem	Synthesis and characterization of some benzothiazole based conjugated molecules in view of their potential optoelectronic properties	2023

M.Phil. students currently under supervision: Total Number: 6

Co-Supervision of M.Phil students from other Universities/Institutes

S.No.	Title		Year
1.	Synthesis and characterization of organic-inorganic hybrid containing deifferent percent of metal oxide from epoxy and curing agent	Noor Ul Amin Hazara Univ KPK	2013
2.	Synthesis and characterization of hybrids metal oxide nanoparticles and their composites with epoxy and curing agent	Farmana Ayaz Hazara Univ KPK	2013

Ph.D Supervision

S.No.	Title	Name of Student	Year
1.	Synthesis and characterization of Polyethylene composites based on Polysaccharides	Sadullah Mir (As Supervisor)	2011

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2.	Synthesis of different classes of flavonoids, their thio and imino derivatives having potential biological and industrial applications	Lubna Rashid (As Co--supervisor)	2011
3.	Synthesis and Characterization of compatibilized Polyimide-silica composites	Toheed Akhter (Supervisor)	2013
4.	Synthesis and Characterization of Sulfone based high performance Polymers	Ghulam Waris (Supervisor)	2014
5.	Synthesis, Characterization and development of some new epoxy polymers and their composites	M.Fida ul Mustafa (Supervisor)	2015
6.	Computer-guided design and synthesis of IL-2 inhibitors as immunomodulating agents	Saima Kalsoom Supervisor	2016
7.	Synthesis and characterization of triphenylamine based polyimides and their nanocomposites.	Asma Iqbal Supervisor	2017
8.	Triphenylamine based high performance polymers: Synthesis, characterization and applications	Naila Khalid Supervisor Supervisor	2017
9.	Protic ionic liquid based polymers and salts for advanced energy applications	Syed Azhar Hussain Shah Supervisor	2017
10.	Molecular engineering and photophysical characterization of heteroleptic Ru II dyes sensitizers for dye-sensitized solar cells	Saba Ashraf	2018
11.	Nitrogen Doped Carbon Materials (NDCMs) from Organic Ionic Salts and Biopolymer Resources for Supercapacitor Application	Munazza Serwer	2019
12.	Development of 2-Amino-4-phenylthiazole Based Carbon Materials /Composites as Anode for Lithium and Sodium Ion Batteries	Sadaf Ikram	2020
13.	Muhammad Inshad Khan	Synthesis and Characterization of High Performance Amine	2020

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		Functionalized GO-Epoxy Nanocomposites	
14.	Noor ul Amin	Fabrication of liquid crystal based biosensor for the detection and quantification of metal ions	2021
15.	Aalia Manzoor	Design, Synthesis, Characterization and Applications of Polyimides, Sulphonated Copolyimides and their Composites with Protic Ionic Liquids	2024
16.	Bibi Amna	“Design, Synthesis and Characterization of Fused Thiophene-Based Copolymers and Evaluation of their Optoelectronic Properties”	2024

PhD Students under Current supervision: 5

List of Publications

1. Adsorption and Photocatalytic Properties of Tris (4-aminophenyl) amine-based Polyimide/Graphitic Carbon Nitride Composites for Organic Dye Removal
UB Irshad, Z Akhtar, G Bucher, AY Ganin, HM Siddiqi, BVKJ Schmidt
ACS Applied Polymer Materials, Publication Date:February 29, 2024
<https://doi.org/10.1021/acsapm.4c00019>
2. Synthesis of new benzimidazole based ruthenium (II) dyes for application in dye-sensitized solar cells with detailed spectroscopic and theoretical evaluation
S Zafar, S Ashraf, U Iqbal, S Yousuf, HM Siddiqi, F Liaqat, HM Rehman, ...
Journal of Molecular Structure 1289, 135860 **2023**
3. Non-Enzymatic Liquid Crystal-Based Detection of Copper Ions in Water
Nasir Majeed, Humaira Masood Siddiqi, Noor ul Amin
ChemistrySelect 8(3) **2023**

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4. Bromophenoxy Substitution Effect on Thermal and Opto-Electronic Properties of Triphenylamine-Based Co-polyimides, **ChemistrySelect** 8(26) July 2023 [Naila Khalid](#), [Humaira Masood Siddiqi](#), [O. OK. Park](#), [Safeer Ahmed](#), [Monazza Serwar](#)
5. Synthesis of tri-functional allyl-endcapped triphenylmethane crosslinker and evaluation of crosslinking effect on properties of high-density polyethylene, Tariq, Madeeha; Serwar, Monazza; Ashraf, Saba; Yasin, Tariq; Siddiqi, Humaira Masood; **Polymer Bulletin**, 79, pages3703–3720, 2022
6. Molecular engineering of ruthenium-based photosensitizers with superior photovoltaic performance in DSSCs: novel N-alkyl 2-phenylindole-based ancillary ligands, Ashraf, Saba; Su, Rui; Akhtar, Javeed; Shuja, Ahmed; Siddiqi, Humaira M; El-Shafei, Ahmed; **New Journal of Chemistry**, 46 6, 2739-2746, 2022
7. Electrochemical detection of mercuric (ii) ions in aqueous media using glassy carbon electrode modified with synthesized tribenzamides and silver nanoparticles, Manzoor, Aalia; Kokab, Tayyaba; Nawab, Anam; Shah, Afzal; Siddiqi, Humaira Masood; Iqbal, Asma; **RSC advances**, 12, 3, 1682-1693, 2022
8. A reliable sensing platform based on tribenzamide for sensitive and selective detection of Pb (II) ions, Kokab, Tayyaba; Manzoor, Aalia; Aftab, Saima; Aslam, Faiza; Iftikhar, Faiza Jan; Siddiqi, Humaira Masood; Shah, Afzal; **Inorganic Chemistry Communications**, 138, 109261, 2022
9. A photocatalytic dye-degradation study on methylene blue by graphitic nitride based polyimides synthesized via a facile thermal-condensation approach, Habib, Shazma; Serwar, Monazza; Siddiqi, Humaira M; Rana, Usman Ali; Liaqat, Faroha; Shabbir, Aiman; **Journal of Environmental Chemical Engineering** 10,3,107747, 2022
10. High-performance, low-voltage organic field-effect transistors using thieno [3, 2-b] thiophene and benzothiadiazole co-polymers, Amna, Bibi; Isci, Recep; Siddiqi, Humaira M; Majewski, Leszek A; Faraji, Sheida; Ozturk, Turan; **Journal of Materials Chemistry C**, 10,21, 8254-8265, 2022
11. ZnO/Zn (OH) 2 nanoparticles and self-cleaning coatings for the photocatalytic degradation of organic pollutants ,Faheem, Muhammad; Siddiqi, Humaira M; Habib, Amir; Shahid, Muhammad; Afzal, Adeel; **Frontiers in Environmental Science**, 10, 1159,2022
12. Synthesis of Sulfonated Copolyimides by Thermal Imidization for Efficient Lead Ion Adsorption from Aqueous Media, Manzoor, Aalia; Kalsoom, Saima; Khan, Yasir Karim; Siddiqi, Humaira Masood; Shah, Munir Hussain; **ACS Applied Polymer Materials**, 4,8, 5660-5669, 2022
13. Oligoimide-Mediated Graphene Oxide-Epoxy Nanocomposites with Enhanced Thermal Conductivity and Mechanical Properties, Khan, Muhammad Inshad; Akhter, Toheed; Siddiqi, Humaira Masood; Lee, Young Jun; Park, Hyeonjung; Hassan, Muhmood ul; Park, Chan Ho; **Micromachines**, 13,9, 1379, 2022
14. Development of sulphonated co-polyimide based sensor for metal ions detection in aqueous media, Manzoor, Aalia; Siddiqi, Humaira Masood; Shah, Afzal; **Inorganic Chemistry Communications**, 110088, 2022

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15. A (solvent-free) approach to metal-free photo-catalysts for methylene blue degradation
S Habib, M Serwar, UA Rana, HM Siddiqi, S Arif, JA Coca-Clemente, ...
Iranian Polymer Journal 30 (10), 1029-1039 IF 1.899 X **2021**
16. Study of Proton Transport in Diethylmethylammonium Poly [4-styrenesulfonyl (trifluoromethylsulfonyl) imide]-Based Composite Membranes with Triflic Acid and Diethylmethylamine ...AH Shah, UA Rana, H Zhu, J Li, R Vijayaraghavan, DR Macfarlane, ...**The Journal of Physical Chemistry B** (2021) 125 (39), 11005-1101 IF 2.991 W
17. Synthesis of Redox-Active, Fluorescent Triphenylamine Derivative for Detection of Heavy Metal Ions, IU Khan, A Bibi, F Noreen, N Khalid, HM Siddiqi
Russian Journal of Physical Chemistry (2021) A 95 (8), 1574-1580 IF 0.691Y
18. Fabrication of a fluorophore/liquid crystal-based oligopeptide biosensor for the detection of Cu(II) ions N Amin, Y Kun-Lin, N Majeed, HM Siddiqi,
ChemistrySelect 6 (25), 6607-6618 **2021**
19. Synthesis of tri-functional allyl-encapped triphenylmethane crosslinker and evaluation of crosslinking effect on properties of high-density polyethylene
M Tariq, M Serwar, S Ashraf, T Yasin, HM Siddiqi
Polymer Bulletin (2021), 1-18 **IF2.87 X**
20. Polyimides with noncoplanar Carbazole-TPA units: synthesis and characterization
T Habib, M Zubair, S Bilquees, A Iqbal, HM Siddiqi, Z Ashraf, NK Janjua
Polymer-Plastics Technology and Materials (2021) 60 (5), 534-547 **IF 2.63 X**
21. Thermally stable, solution processable and redox active new poly (amide-imide) s:
synthesis and characterization MI Khan, A Iqbal, HM Siddiqi, NK Janjua, TM Butt
Chemical Papers (2021), 75 (8) 3711–3721 **IF 2.097 X**
22. Thermally resistant, mechanically stable, and processable triphenylamine-based hyperbranched copolyimides
N Khalid, HM Siddiqi, OOK Park
Journal of Applied Polymer Science (2021) 138 (6), 49790 IF 3.125 W
23. Effect of fluoro-substituted acceptor-based ancillary ligands on the photocurrent and photovoltage in dye-sensitized solar cells, S Ashraf, R Su, J Akhtar, HM Siddiqi, A Shuja, A El-Shafei, **Solar Energy** (2020) 199, 74-81 **W IF 5.412**
24. Triphenylamine based redox-active, fluorescent polyamides: synthesis and photophysics, N Khalid, S Shumail, HM Siddiqi, R Qureshi, Z Ashraf, **Journal of Polymer Research** (2020) 27 (3), 51 X IF 3.097
25. Recent developments in the synthesis of regioregular thiophene-based conjugated polymers for electronic and optoelectronic applications using nickel and palladium-

- based ..., B Amna, HM Siddiqi, A Hassan, T Ozturk, **RSC Advances (2020)** 10 (8), 4322-4396 **W IF 3.245**
26. Investigation of N and S Co-doped Porous Carbon for Sodium-Ion Battery, Synthesized by Using Ammonium Sulphate for Simultaneous Activation and Heteroatom Doping, S Ikram, S Dsoke, A Sarapulova, M Müller, UA Rana, HM Siddiqi, **Journal of The Electrochemical Society (2020)** 167 (10), 100531 **W IF 4.316**
 27. Synthesis and mesomorphic properties of H-bonded side-chain liquid crystal polymers of two modifications of poly (4-vinylphenol) and poly (4-vinylpyridine) K Muhammad, HM Siddiqi, S Hameed, **Molecular Crystals and Liquid Crystals (2020)**, 708 (1), 14-25 **Y IF 0.896**
 28. Development of tribenzamide functionalized electrochemical sensor for femtomolar level sensing of multiple inorganic water pollutants, T Kokab, A Manzoor, A Shah, HM Siddiqi, J Nisar, MN Ashiq, AH Shah, **Electrochimica Acta (2020)** 353, 136569 **W IF 6.901**
 29. Bovine serum albumin protein-based liquid crystal biosensors for optical detection of toxic heavy metals in water, HM Siddiqi, Y Kun Lin, Z Hussain, N Majeed, **Sensors (2020)** 20 (1), 298. **W IF 3.576**
 30. Electrochemical investigations of DNA-Intercalation potency of bisnitrophenoxy compounds with different alkyl chain lengths, M Shakeel, TM Butt, M Zubair, HM Siddiqi, NK Janjua, Z Akhter, A Yaqub, **Heliyon (2020)** 6 (6), e04124 **X IF 2.85**
 31. Investigation of thermal and fluorescent properties of benzoxazole-linked triphenylamine-based co-polyimides, Asma Iqbal, Maria Zubair, Humaira Masood Siddiqi*, O Ok Park*, Toheed Akhter ,Aamer Saeed, **High Performance Polymers (2020)**, 32 (3), 231-241 **2.161**
 32. Effect of fluoro-substituted acceptor-based ancillary ligands on the photocurrent and photovoltage in dye-sensitized solar cells, S Ashraf, R Su, J Akhtar, HM Siddiqi, A Shuja, A El-Shafei, **Solar Energy (2020)** 199, 74-81 **IF 5.742**
 33. Bovine Serum Albumin Protein-Based Liquid Crystal Biosensors for Optical Detection of Toxic Heavy Metals in Water, HM Siddiqi, Y Kun Lin, Z Hussain, N Majeed, (2020), **Sensors** 2m0 (1), 298 **IF 3.576**
 34. Triphenylamine based redox-active, fluorescent polyamides: synthesis and photophysics, N Khalid, S Shumail, HM Siddiqi, R Qureshi, Z Ashraf, **Journal of Polymer Research (2020)** 27 (3), 51 **IF 3.097**
 35. Investigation of N and S Co-doped Porous Carbon for Sodium-Ion Battery, Synthesized by Using Ammonium Sulphate for Simultaneous Activation and Heteroatom Doping S Ikram, S Dsoke, A Sarapulova, M Müller, UA Rana, HM Siddiqi (2020) **Journal of The Electrochemical Society** 167 (10), 100531 **IF 4.316**
 36. Recent developments in the synthesis of regioregular thiophene-based conjugated polymers for electronic and optoelectronic applications using nickel and palladium-

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- based ..., B Amna, HM Siddiqi, A Hassan, T Ozturk, **RSC Advances** (2020) 10 (8), 4322-4396 IF 3.245
37. Corrigendum to "Investigations into structure-property relationships of novel Ru (II) dyes with N, N'-Diethyl group in ancillary ligand for dye-sensitized solar cells"[Dyes ...S Ashraf, R Su, J Akhtar, HM Siddiqi, A Shuja, KA Al-Saad, ...**Dyes and Pigments** (2020)173, 107955 IF 4.889
38. Titania Laden Liquid Crystal Based Sensor as Photocatalyst, N Majeed, F Qazi, HM Siddiqi, Z Hussain, **Journal of nanoscience and nanotechnology** (2019) 19 (12), 7673-7678
39. One step *in situ* synthesis of ZnS/N and S co-doped carbon composites *via* salt templating for lithium-ion battery applications, New Journal of Chemistry, S Ikram, M Müller, S Dsoke, UA Rana, A Sarapulova, W Bauer, ...**New Journal of Chemistry** (2019) 43 (33), 13038-13047
40. High performance epoxy nanocomposites with enhanced thermal and mechanical properties by incorporating amine-terminated oligoimide-grafted graphene oxide, MI Khan, HM Siddiqi, CH Park, J Han, H Park, B Kim, M Hassan, T Akhter, **High Performance Polymers**, (2019), 0954008319888670
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8. National workshop on *in silico* tools in medicinal chemistry, December 22-25, 2011 Department of Chemistry QAU Islamabad.
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