

MACRO 2022

The 49th World Polymer Congress

July 17 – 21, 2022

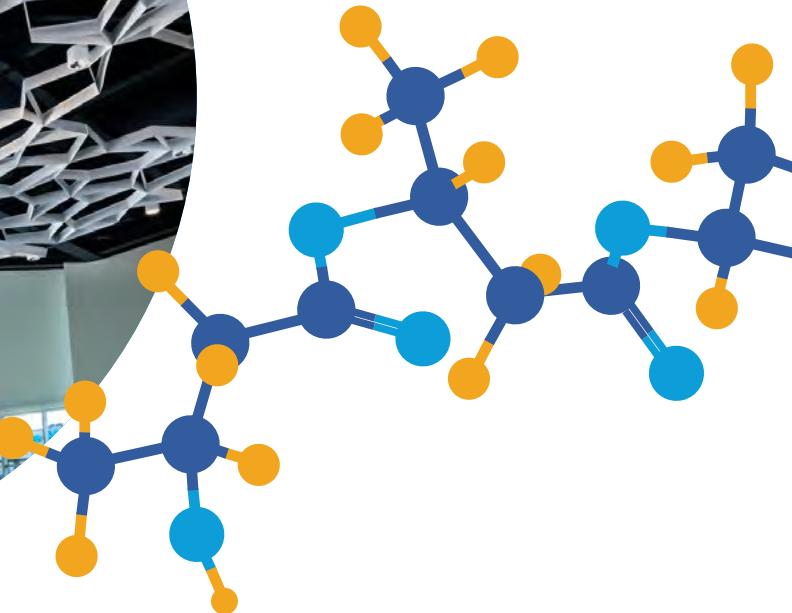
Winnipeg, Canada

Book of Abstracts



Table of Contents

Plenary Lectures	3
Workshops	8
Awards Presentations and Lectures	12
Concurrent Sessions	16
In-person Posters	203
Virtual Presentations	240
Virtual Poster	345
Author Index	369



MACRO 2022
The 49th World Polymer Congress
July 17 – 21, 2022 Winnipeg, Canada

Book of Abstracts

| Page 2

Virtual Presentations

V-ORAL18: Application of Synthetic Hydrogels As Novel Multifunctional Soil Amendments

Mr. Leonid Ilyasov¹, Dr. Irina Panova¹

¹Lomonosov Moscow State University, Department of Chemistry, Moscow, Russian Federation

Virtual Presentations, July 9, 2022, 8:00 AM - 9:00 AM

While using polyelectrolytes as soil ameliorants, there are two main directions. The first is the use of linear polymers in order to create a protective polymer-soil cover, which prevents erosion by wind/water flows and mechanical destruction of soils in general. The second direction is the use of hydrophilic crosslinked polymers with network structure, which form hydrogels in aqueous medium, capable of long-term moisture retention, and when mixed with soil, significantly increase soil moisture retention. At the same time, there are almost no descriptions of synthetic polymeric soil conditioners with both effects combined. This work presents the application of two cross-linked copolymers as promising soil conditioners with double effect.

The first material, presented here, is a microgel based on a crosslinked copolymer of polyacrylic acid and N-isopropylacrylamide. It was obtained by emulsion polymerization with an average diameter of beads of ~40 nm. The microgel was applied to sandy soil in a form of 1% solution by sprinkling it over the soil surface. As a result, a polymer-soil crust was formed. The formation of crust was possible due to the small size of separate microgel particles, which allowed them to bind separate soil particles. The crust was demonstrated to be stable against strong wind (up to 54 m/s velocity) and water flows. At the same time, the treatment of soil samples with the polymer greatly enhanced water retention properties compared to an untreated control sample, due to the network structure. For example, treatment of sandy soil increased the available water range (AWR) from ~3% to ~16%. The second material is a hydrogel based on a crosslinked copolymer of acrylamide, potassium acrylate and starch. The mass content of crosslinking agent was ~0.04%. It was so low on purpose to make the hydrogel mechanically weak so that it is easily deformable and spreadable over the soil surface. The polymer was obtained by graft polymerization in block, then it was crushed to 0.25-0.5 mm-sized granules. The swollen hydrogel with 1% polymer content was applied to the soil surface by sprinkling. Likewise, a polymer-soil crust was obtained. This time, it was created due to the fact that the swollen hydrogel was able to spread over the surface of the soil and cover all soil particles with a uniform film. The crust also withstood strong wind/water streams. Simultaneously, treatment of sandy soil with polymer increased the AWR from 3% to 21%.

We compared the presented materials with conventional polymeric soil amendments. First, a linear polymer, polyacrylic acid, also created a mechanically stable polymer-soil crust but it had no impactful water retention. Second, we tested a commercial hydrogel, cross-linked copolymer of acrylamide and potassium acrylate with ~0.2% crosslinking density. In turn, it enhanced the water regime of sandy soil (increased AWR from 3% to 19%), but did not form any mechanically stable structure. This way, the novel polymeric soil amendments, presented here, combine properties of conventional materials.

This work was supported by the Russian Foundation for Basic Research (grant number 19-29-05036 MK).



MACRO 2022

The 49th World Polymer Congress
July 17 – 21, 2022 Winnipeg, Canada

Book of Abstracts

| Page 296

MACRO 2022 Book of Abstracts

Author Index



Author Index

A

- A, Sigen 151
A D, Rosa 378
Ab Rani, Mohd Azri 458
Abdala, Ahmed 186
Abe, Takumi 175
Abetz, Clarissa 164, 146, 150
Abetz, Volker 158, 164, 146, 150
Abuhatab, Saqr 308
Acharya, Bishnu 189, 190
Adam, Luana Graziela 173
Adams, Friederike 27
Adams, Tyler 388
Adronov, Alex 349
Agboluaje, Maryam 122
Ahmad Tarmizi, Amirah Amalina 457
Ahmadijokani, Farhad 372, 377
Ahmed, Marya 459
Ahmed, Ramadan 253
Ajiro, Hiroharu 83
Ajogbeje, Opeyemi 115
Akbari, Hossein 22
Akdevelioglu, Yavuz 384
Alam, Kazi 24, 25
Albani, Francieli 394
Alhajabdalla, Mohammed 253
Aloise Pilli, Ronaldo 348
Alshami, Ali 45
Al-Sulaiti, Leena 186
Amini, Majed 386, 377, 376
Anastasaki, Athina 440
Anguy, Yannick 74
Anthony Raj, Mohan Raj 306
Aoki, Daisuke 162, 161, 175
Appel, Eric A 416
Appelhans, Dietmar 366
Appold, Michael 303
Aristizabal, Sandra L 153
Arjmand, Mohammad 397, 386, 156, 377, 403, 376
Armould, Priscilla 391
Arnold, Gunther 163
Arunachalam, Swasthika 311
Atanase, Leonard 228, 227, 230
Atanase, Leonard Ionut 255
Au, Vonika Ka-Man 406
AvazzadehSamani, Farhad 142
Awad, Mohammed 239
Azhdari, Suna 100, 127, 109

B

- B. Carmichael, Tricia 436
Babaeighazvini, Amin 189, 190
Bahaum, Azizah 454
Bai, Baojun 254
Baillon, Fabien 74
Bajer, Barbara 146
Baldassi, Domizia 27
Bando, Masayoshi 252
Bandyopadhyay, Anasuya 453
Banu, Doriana 424
Baris, Demir 276
Barros-Timmons, Ana 119
Battagliarin, Glauco 193
Battentier, Amandine 22
Bawa, Shubham 453
Beament, James 104
Beaumont, Catherine 250
Bedaidia, Amina 309
Begin, Sarah 299
Bello, Adedayo 31
Bender, Desiree 233, 234
Bengtson, Gisela 301
Beniac, Daniel R 243
Bennett, Thomas 28
Benniston, Andrew C 194
Benoit, Marianne 236
BERNAETS, Katrien V 94
Bernard, Laurent 294
Bertsch, Christelle 230
Beuermann, Sabine 285, 184, 126, 278, 197
Bistac, Sophie 338
Bitton, Ronit 82
Blanc, Delphine 391
Bobrov, Gleb 399
Boivin, Louis-philippe 335
Bolado Martinez, Enrique 460
Bolivar, Genaro 95
Bose, Suryasarathi 412
Boulay, Anne-Marie 155
Bourne, Richard 169
Bouteiller, Laurent 84
Braga Santos, Amanda 63
Brancart, Joost 56
Brassard, Samuel 339
Brendel, Johannes C 201, 202, 316
Brook, Michael 76, 0
Brotherton, Andrew 393, 388
Brown, Ashley C 55



MACRO 2022

The 49th World Polymer Congress
July 17 – 21, 2022 Winnipeg, Canada

Author Index

Brunet, Juliette.....	177
Brustolin Braga, Carolyne	348
Bruzaud, Stéphane	33
Bryant, Steven	353
Buback, Michael	58
Budtova, Tatiana	296
Buffet, Jean-Charles	231
Buhr, Kristian	303
Busch, Markus	133
Butzelaar, Andreas.....	319
Byers, Jeff	139
Bygott, Elizabeth	188

C

Cadinoiu, Anca N.....	227
Cadinoiu, Anca Niculina	255
Caillieaudeaux, Jade.....	29
Caillol, Sylvain	7, 8
Camacho, Kristine Joy.....	402
Canfarotta, Francesco	359
Carastan, Danilo.....	63
Cardinaels, Ruth.....	305
Carmichael, R. Stephen	436
Carmichael, Tricia.....	410, 409
Carvalho, Pedro. J.....	245
Casalegno, Mosè	318
Cassidy, Kyle	363
Cellier, Julien	236
Celso, Fabrício	394, 173
Cernescu, Adrian.....	225
Cetina-Mancilla, Enoc	153
Champagne, Pascale	328
Chan, Melissa Chin Han	183, 458
Chang, Jian	330
Chang, Yu-ming	374
Chanthaset, Nalinthip.....	83
Chapman, Robert.....	292
Chaulagain, Narendra	24, 25
Chávez Gutiérrez, Miguel	343
Che, Yunjiao.....	366
Chen, Guosong.....	148
Chen, Hsien-yeh	374
Chen, Jiun-Tai.....	286
Chen, Lan	324
Chen, Qian	159
Chen, Quan.....	417
Chen, Sim Yee.....	340
Chen, Xinshi	123
Chen, Yang	76

Chen, Yiming.....	129
Chen, Yu-Fon	120
CHEN, HSIEN-YEH.....	364, 373
Chirachanchai, Suwabun	270
Choi, Jung-Woo	200
Choi, Phillip	269, 368
Choo, Yvonne Shuen Lann.....	194
Chvalun, Sergei.....	326
Cicek, Nazim	263
Cicoira, Fabio	306
Cinar, Gizem	235
Cisek, Richard	218
Clement, Baptiste.....	341
Clothier, Glenn	354
Coates, Geoffrey	421
Coban, Deniz	100, 127
Coll Herrera, Deysma	264
Collins Rice, Clement	231
Constantin, Marieta	228
Coumes, Fanny.....	338
Cranston, Emily	24
Cruz, Yennier	54
Cucoveiva, Oana.....	230
Cunningham, Michael.....	176, 455, 328, 298, 238, 89
Currie, Sarah.....	243
Cutts, Todd.....	243

D

Dali, Mohd Nor Ashrawi Hakim Mohd.....	457
D'amaral, Gloria	410, 436
Dandois, Manon	29
Dargel, Silke	300
Darwich, Chaza.....	177
Das, Dipayan.....	108
Dave, Ridhdhi	112
De Geyter, Nathalie	304
DE LEENER, Gael.....	94
de los Santos Villalobos, Sergio.....	461
Deacon, Hayden.....	132
del Castillo Castro, Teresa.....	460, 461
Delaite, Christelle	29, 230
Delorme, James	391
DELPORTE, Cédric P.....	94
Deng, Zhengyu	237, 79
Diaz, Javier.....	317
Dixit, Harish Nagaraj.....	311
Domínguez, Carlos.....	98, 97
Dorogin, Jonathan.....	219
Drache, Marco	184, 126, 197



Author Index

Duchet-Rumeau, Jannick 49, 276
Dumon, Michel 74, 73
Dupont, William 335
Durham, Olivia 363
Dušička, Eva 181

E

Eaton, Mark 320
Ebied, Amer 239
Elaf, Reem 254
El-Hag, Ayman 186
Elias, Anastasia 340
Elkoun, Saïd 251, 203
Ellis, Charlotte 390
El-Shafei, Ahmed 55
Emrick, Todd 106
Encinas Encinas, Jose 460
Escalona, Néstor 54, 143
Eymann, John 177

F

Fabian, Alexandra 309
Fadlan, Arif 83
Fakhrai Mofrad, Nima 291
Famulari, Antonino 318
Farrell, Wesley 37
Feng, Yujun 178, 170
Fernández de la Torre, Alexander 371
Fernando, Nitara 112
Ferreira, Artur 119
Feuerpfeil, Andreas 126, 278
Fielden, Stephen 281
Filiz, Volkan 300, 301, 303
Fitzgerald, Sophie 212
Florea, Ciprian Victor 424
Forget, Aurelien 446
Fors, Brett 466
Forster, Michael 153
Fort, Océane 84
Fradin, Cecile 112
Franczyk, Adrian 361
Frech, Stefan 321

G

Gaitzsch, Jens 366
Gajan, David 177
Gama, Nuno 119
Gao, Yongsheng 117

Garcia, John 24
Garcia-Hernandez, Diego 336
García-Muñoz, Rafael A. 98, 97
Gauthier, Marc A 130
Gebreyohannes, Abaynesh Yihdego 244
Gebreyohannes, Abaynesh. Y. 245
Gendron, David 335
George, Sean 298, 238
Gerard, Jean-François 49
Gérard, Jean-François 276
Gernandt, Andreas 298, 238
Ghaderi, Saeed 386, 377, 403
Ghaffarkhah, Ahmadreza 397
Ghibu, Emilian 424
Giamberini, Marta 194
Gigault, Julien 470
Gillies, Elizabeth 237, 445, 79, 215
Gluck, Jessica M. 55
Godinho, Bruno 119
Gokus, Tobias 225
Gonzalez-Gutierrez, Joamin 163
Govedarica, Aleksandra 399
Grauzeliene, Sigita 195
Gridina, Olga 127
Gröschel, André 100, 127, 109
Gruschwitz, Franka V. 201
Guerchoux, Morgane 29
Gugoasa, Ionela 357
Guild, Jonathan 284
Guimaraes, Thiago 354
Guironnet, Damien 144
Guo, Ruilan 208
Gurave, Pramod Manikant 302
Gusarov, Sergey 24, 25

H

Habboub, Ola S. 153
Haddadi, Seyyed Arash 386, 403
Haida, Philipp 158
Hait, Sukhendu 233
Han, Chan Chin 457
Han, Zifei 292
Handlin, Alexandra 297
Harrison, Melissa 340
Harrisson, Simon 285, 0
Harvey, MacAulay 218
Hassan, Mohammad 186, 444
Hatzikiriakos, Savvas 269, 327
Haurat, Margaux 74



MACRO 2022

The 49th World Polymer Congress
July 17 – 21, 2022 Winnipeg, Canada

Author Index

Held, Martin	150
Herres-Pawlis, Sonja	68
Hillmyer, Marc	213
Hilton, Eleanor	154, 232
Himmelsbach, Andreas	384
Hoare, Todd	445, 219, 112, 324
Hoeppener, Stephanie	316
Hof, Rebecca	336
Höhme, Anke-Lisa	146, 150
Hong, Kwang Dae	200
Hong, Yeongran	280
Hoogenboom, Richard	295
Hossain, Mohammed Shahadat	263
Hosseini, Hadi	386, 377, 376
Hrymak, Andrew	405
Hu, Wenbing	261
Huang, Peng	47
Hudson, Zachary	103
Hur, Su-Mi	211, 0
Hussein, Ibtelwaleed	254, 444, 253, 45
Hussein, Rahaf	409
Hutchinson, Robin	176, 285, 122, 188, 115, 132, 105, 181

I

Ibrahim, Saleh	76
Ichim, Daniela	230
Ilyasov, Leonid	187
Ismail, Nadhem	45
Iurciuc (Tincu), Camelia Elena	257
Ives, Brittany	436
Ivol, Flavien	294

J

Jagu, Romain	338
Jan, Jeng-shiung	120
Jang, Hwandong	222
Jantke, Laura-Alice	126
Jaras, Justinas	195
Jen, Alex	420
Jerca, Victor	424
Jeszka, Jeremiasz	117
Jhons, Yasmeen	154, 232
Jiang, Jie	90
Jinks, Michael	154, 232
Johnson, Rhiannon	359
Jones, Matthew	212
Jose, Anna	246
Juan, Rafael	98, 97

Junkers, Tanja	138, 285, 137
----------------------	---------------

K

K N, Vinod	378
Kadambari, Kadambari	111
Kajiwara, Atsushi	282
Kamand, Fadi	186
Kamkar, Milad	397, 386, 377
Kanan, Matthew	114
Karamdoust, Solmaz	239
Karg, Matthias	127
Kavyani, Sajjad	269
Kayser, Laure	265
Kechekeyan, Petr A.	398
Kedzior, Stephanie	399
Kerton, Francesca	415
Keyvani, Parya	327
Khan, Murtaza	354
Khorsand Kheirabad, Atefeh	314
Kiick, Kristi	241
Kim, Bumjoon	280
Kim, Byeonggwan	222
Kim, Eunkyoung	222
Kim, Jinbo	222
King, Martin W.	55
Kiriakou, Michael	24
Kiushov, Aleksandr	337
Klein, Tobias	201
Kloker, Gabriele	399
Kloxin, April	469
Knox, Stephen	169
Kobryn, Alexander	24, 25
Koh, Rhun Yian	456
Kontopoulou, Marianna	242
Korber, Darren	189
Korigodskii, Andrei	398
Kösterke, Tom	366
Kotyza, Oldrich	387
Kozak, Chris	118, 104
Kremer, Constanza	54
Kreplak, Laurent	218
Krishnan, Jay	243
Krishnan, Ramya	324
Kuchenbrod, Maren T.	316
Kuenkel, Andreas	193
Kumar, Anand	243
Kumar, Anil	453
Kumar, Ayush	243
Kumar, Pawan	25



MACRO 2022

The 49th World Polymer Congress
July 17 – 21, 2022 Winnipeg, Canada

Author Index

Kusiak, Andrzej.....	74
Kuyler, Gestél Kuyler	379
Kuzmyn, Andrii	23
L	
Lacík, Igor	287, 181
Lacôte, Emmanuel	177
Lademann, Brigitte	303
Lai, Rebecca	350
Laine, Carole	33
Lamb, Jessica	310
Lamprou, Alexandros	193
Landfester, Katharina	467
Landry, Eric	239
Lankenau, Andrew	114
Larrosa, Ignacio	264
Lartigau-Dagron, Christine	196
Lashkari, Piyush	405
Laventure, Audrey.....	333
Le Barbenchon, Louise.....	74
Le Moigne, Louis	177
Leclerc, Mario	214, 339, 250, 335
Ledoux, Audrey	177
Lee, Chin-yun.....	375
Lee, Joonbum.....	200
Lee, Patrick.....	367
Lee, Siang Yin.....	456
Leer, Katharina	235, 316
Leiviskä, Tiina.....	31
Lemechko, Pierre	33
Leonardi, Amanda	297
Lerond, Michaël.....	306
Levin, David	64, 242
Li, Christopher	414
Li, Chuanfeng.....	215
Li, Juan	347
Li, Sheng	280
Li, Shiwei	170
Li, Yinghao.....	151
Li, Zihao	292
Liang, Xiaoli.....	79
Lichtenhan, Joseph	233
Liew, Yun Khoon.....	456
Likožar, Blaž	176
Lim, Wonki	280
Lin, Zhiqun	51
Litke, Quintin	242
Liu, Guojun.....	233, 91, 234
Liu, Kun.....	439

Liu, Meng.....	113
Liu, Peng.....	101
Liu, Song.....	243, 242
Liu, Xuanbo	145
Liubimtsev, Nikolai.....	366
Livi, Sébastien	49
Livi, Sébastien	276
Lochab, Bimlesh	204
Lofts, Andrew	324
Logsetty, Sarvesh	243
Long, Brian.....	180
Losada-Pérez, Patricia	359
Lourenço, Fernando	47
Luscombe, Christine	220
Lyu, Jing	151, 117

M

Ma, Cong	101
Madureira, Pedro	119
Mahmoud, Husameldin	253
Maitland, Duncan.....	382
Mali, Gregor	358
Mallon, Peter	379
Mamauod, Siti Nur Liyana	457
Mandemaker, Laurens	53
Mangialetto, Jessica	288
Manners, Ian.....	336, 390, 107
Mapfumo, Prosper.....	316
Marić, Milan	57
Marques, Gustavo	119
Martin, Liam	235
Mather, Patrick	389
Matson, John	80, 82, 448, 81
Matyjaszewski, Kris	117, 70
Mätzig, Jonas	184, 197
Mavric, Andraz	358
McClements, Jake	359
Meadows, Jared	393
Mechael, Sara	436
Mechrez, Guy	352
Mehdi, Riddhiman	297
Mehdiabadi, Saeid	116
Mehmood, Basharat	186
Mehrkhodavandi, Parisa	66, 327
Meille, Stefano V.....	318
Meis, David	301
Melchin, Timo	126
Merkel, Olivia M.	27
Merlat, Lionel	29



Author Index

Merna, Jan.....	387
Meunier, Louise.....	105, 142
Michaud, Guillaume.....	391
Moad, Graeme.....	423, 354
Mohammed, Arafat A.A.....	253
Mohan, Binduja	124
Mok, Kok Lang	456
Montarnal, Damien.....	177
Monteil, Vincent	391
Moores, Audrey	404
Moreno Salazar, Sergio	461
Morent, Rino	304
Morrisso, Fernando.....	394
Mukherjee, Sourav.....	204
Muller, Olivier	29
Müller, Marcus	226
Mundil, Robert.....	387
Mushing, Alan.....	47
Musil, Vojtech	387

N

Nadeem, Ayesha	390
Nair, Sabari	186
Najm, Marina.....	269
Nakano, Tamaki	252
NANDASIRI, Ruchira.....	94
Nandi, Parna.....	108
Narimisa, Mehrnoush.....	304
Nasser, Mustafa	444, 253
Navaruckiene, Aukse	195
Nazarov, Alexey.....	326
Neumann, Silvio	300, 301
Nicolas, Julien	36
Niebla, Vladimir.....	371
Nierop, Klaas	53
Nikitin, Anatoly	181
Nischang, Ivo	235
Nofar, M. Reza	384, 174
Nunavarova, Katerina.....	387
Nunes, Suzana P	244
Nunes, Suzana P.	153
Nunes, Suzana. P	245
Nyamayaro, Kudzanai	327
Nybo Sorensen, Mads	358
Nyström, Bo	255

O

Obaidoon, Salman	116
Ober, Christopher	297
Ocepik, Martin	176
Ochiuz, Lacramioara.....	257
Ochoa Meza, Andres.....	461
Oh, Jung Kwon	111
Oh, Jung Kwon (John).....	75
O'Hare, Dermot	231
Olvera, Lilian I.	153
Onyshchenco, Yuliia	304
O'Reilly, Rachel	281
Ornelas, Catia	348
Orr, Amanda	437
Ortiz, Pablo	264
Ostrauskaite, Jolita.....	195
Otsuka, Hideyuki	162, 161, 175
Ouchi, Makato	136
Ouellet, Carl	251
Owens, Róisín M.....	418
Ozdemir, Burcu	384

P

P L, Jagadeshvaran.....	412
Pagonabarraga, Ignacio	317
Pandey, Satish	378
Panova, Irina.....	187
Panwar, Kamlesh	412
Paredes, Beatriz	98, 97
Park, Jin Su	280
Parkin, Hayley	336
Parkinson, Sam.....	168
Pasetto, Pamela	236
Paul, Alison	320
Pavlikov, Alexander V.	398
Peeters, Marloes	359, 432, 39
Pelucchi, Matteo.....	369
Penlidis, Alexander	152
Pensec, Sandrine.....	84
Pentzer, Emily	419
Perez Martinez, Cinthia	460, 461
Perli, Gabriel	49, 276
Perrier, Sébastien.....	354
Perrin, Rémi	341
Phang, Sook-Wai	454
Philippova, Olga	96, 351
Picard, Lionel	294
Pichon, Pascal	341



Author Index

Pilard, Jean-françois.....	236
Pinna, Marco.....	317
Pirman, Tomaž	176
Pitcher, Joe	47
Polanowski, Piotr.....	117
Pollit, Adam.....	239
Popa, Marcel.....	227, 255, 257, 357
Pope, Simon.....	212
Popescu, Irina.....	228
Porel, Mintu	246, 247
Preciado, Nahueli	219
Prevost, Julie	84
Procházková, Eliška.....	350
Pruvost, Sébastien	276
Puchkov, Alexander.....	326
Puchkova, Yuilia	326
Pulido, Bruno A.	153

Q

Quintieri, Giada	100, 109
------------------------	----------

R

Racovita, Stefania.....	357
Rafful, Kelvynne.....	394
Ragasa, Mary	262
Rahman, Mashiur.....	262, 263
Rahman, Md. Mushfequr	165, 164, 146
Ramakrishnan, Indumathi	412
Ramos, Gabriela.....	394
Rangou, Sofia.....	303
Ranne, Mokhamed.....	349
Raos, Guido.....	465, 291
Rapacz, Dominika.....	361
Rata, Delia M.....	228, 227, 255
Raynaud, Jean.....	177, 391
Razuvayeva, Ekaterina.....	326
Reck, Bernd.....	298, 238
Reina, José Antonio	194
Renaud, Lauren.....	436
Riazi, Hossein.....	397
Richter, Friederike.....	316, 329
Richtering, Walter	110
Rigg, Amanda.....	328
Ritaine, Dialia.....	349
Rittinghaus, Ruth D.....	68
Robert, Mathieu	251, 203
Roberts, Edward PL.....	308
Robinson, Jerome.....	401

Robledo, Nuria	97
Rodíguez González, Fidel	143
Rodriguez, Ary	264
Rodriguez Felix, Dora.....	461
Rodríguez-Fernández, Jesica.....	126
Rodríguez-González, Fidel.....	54
Rojas, Orlando.....	377
Roman, Stacy	379
Romero-Zeron, Laura	152
Ruckdäschel, Holger	384
Rumigny, Jean-François	338
Russell, Derek	105
Russell, Gregory T.	285
Rzayev, Javid	402

S

S. Nguyen, Thien	280
Saad, Mohammed.....	254
Salah, Belal.....	186
Samavedi, Satyavrata	311
Sanchez-Diaz, Simon	251, 203
Sanders, Connor	298, 238
Santos, Demetrio	63
Santos López, Gonzalo	343
Sauvageau, Martial.....	74
Sauvageau, Dominic	340
Sayresmith, Nickolas	393
Scheiger, Johannes.....	322
Scherf, Ullrich	153
Schlingman, Kory	410, 436
Schnabl, Kordula	53
Schneider, Erik S.....	150
Schönherr, Holger	259
Schroeder, Sven	284
Schuller, Anne-Sophie	29
Schyns, Zoe	28
Scott, Alison	152
Sedush, Nikita	326
Segal-Peretz, Tamar	150
Seo, Ji-Hun.....	200
Serse, Francesco	369
Seyedin, Shayan	359
Shah, Rajas Sudhir	353
Shamlooh, Mohamed	254
Shang, Yvette	449
Shanmugan, Ananthu.....	124
Shanmugaraju, Sankarasekaran.....	124
Sharma, Kamendra P.....	442, 407
Sharma, Vivek	411



Author Index

SHAVANDI, Amin 94
Shaver, Michael 28, 47, 35
Shaw, Matthew 212
Sheardown, Heather 112
Shi, An-Chang 240
Shibu, Abhishek 393
Shipp, Devon 363, 389
Shmidov, Yulia 82
Shoichet, Molly 441
Signorato, Gloria 158
Silva, Liliana. P 245
Simon, Assaf 150
Singh, Andrew 324
Singla, Pankaj 432
Sirianni, Quinton 79
Skene, Will 315, 306
Skorjanc, Tina 358
Smeltzer, Sandra 298, 238
Smulders, Maarten M. J. 23
Soares, João 116
Sobotta, Fabian 202
Sokolohorskyj, Anatolij 387
Solomun, Jana 329
Solomun, Jana I. 235, 316
Song, Zhiyi 252
Soroush, Masoud 397
Sperling, Evgeni 146
Srivastava, Rajiv K 302
Stamplecoskie, Kevin 91
Stenzel, Martina 271, 292, 350
Stotesbury, Theresa 437
Stover, Harald 249
Street, Steven 336, 390
Stumbé, Jean-François 338, 341, 309
Syed Pervez, Atif 399

T

Tabrizizadeh, Tina 91
Takashima, Rikito 161
Tallon, Jean Marc 73
Tamm, Sabrina 65
Tan, Lee Yae 83
TANG, Ben Zhong 171
Terraza, Claudio 264, 371, 54, 143
Terrill, Nick 284
Theato, Patrick 321, 322, 319
Therien-Aubin, Heloise 131, 134
Thompson, Steven 354
Thomson, Alan 359

Thurakkal, Liya 247
Thys, Marlies 56
Tidas, Frédéryck 338
TILLIER, Cécile 94
Tillman, Kelly 389
Tokarz, Danielle 218
Torres Figueroa, Ana Valeria 460, 461
Torres Rocha, Olga 328
Touchet, Tyler 382
Traeger, Anja 235, 316, 329
Triaud, Romain 230
Trifkovic, Milana 399, 353, 408, 308
Tundidor-Camba, Alain 264, 371, 54, 143
Turner, Zoe 231

U

Ulrich, Hans F. 201
Upadhyaya, Lakshmeesha 244, 245

V

Valant, Matjaz 358
Van Assche, Guy 56
Van den Brande, Niko 56, 288
Van Mele, Bruno 288
Vargas, Lydia 464
Vasilache, Andreea Loredana 228
Vasiliu, Silvia 357
Velázquez Tundidor, María Victoria 143
Vendamme, Richard 56
Visavelya, Nikunjkumar 396, 395, 392
Voit, Brigitte 366
Vollmer, Ina 53
Vos, Cyler 104
Vovelle, Louis 391
Vreugdenhil, Andrew J. 299
Vu, Nam Duc 391

W

Waddell, Paul G. 194
Wałęsa-Chorab, Monika 315
Walter, Michael 393, 388, 447
Wan, Yonghong 324
Wang, Hsiao-fang 125
Wang, Jiali 164, 146
Wang, Jiandong 234
Wang, Jiping 261
Wang, Qingyu 252
Wang, Weien 243



MACRO 2022

The 49th World Polymer Congress
July 17 – 21, 2022 Winnipeg, Canada

Author Index

Wang, Wenxin.....151, 117
Wang, Ziyu55
Ward, Benjamin.....212, 320
Warren, Nicholas.....154, 69, 169, 284, 232
Weckhuysen, Bert53
Weingrill, Helena163
Weisner, Ulrich167
Werner, Arthur298
Wilding, Clarissa169
Wilson, Andrew232
Wilson, Andrew J154
Wilson, Paul60, 61, 59, 437
Wong, Chi Pui Jeremy269
Wong, Pei Yi454
Wongwilawan, Sirinapa280
Woroch, Cristian.....114
Wu, Changzhu358
Wu, Penfei.....252
Wu, Ting-ying373
Wu, Veronica.....306
Wu, Yunyun.....436
Wübbenhorst, Michaël288
Wurzer, Stefan163

X

Xiang, Peng239
Xie, Fengwei101
Xu, Huaping422
Xu, You350

Y

Yamamoto, Takumi.....162
Yan, Li-Tang149
Yavuz, Cafer T.280
Yokochi, Hirogi175
Yong, Kok Chong456
Younes, Georges57
Young, Taylor320
Yuan, Jiayin.....314, 330
Yun, Sungchan.....274, 273

Z

Zago, Erika94
Zagradkska-Paramova, Zlata.....366
Zaidi, Midhat.....186
Zetterlund, Per354
Zhang, Jiale.....278
Zhang, Kaka234

Zhang, Yan178
Zhang, Zhenzhen146, 150
Zhang, Zidan117
Zhao, Yue90, 248, 123, 129, 113
Zheng, Sijia.....76
Zhirnov, Artem E.398
Zhou, Hong-Cai.....147
Zhu, Yumeng82
Ziegenbalg, Nicole.....202
Zimmermann, Christoph M.27
Zolotukhin, Mikhail G.....153
Zuilhof, Han23
Zvelindovsky, Andrei.....317



MACRO 2022

The 49th World Polymer Congress
July 17 – 21, 2022 Winnipeg, Canada

Book of Abstracts

| Page 378



MACRO 2022

The 49th World Polymer Congress
July 17 – 21, 2022 Winnipeg, Canada